

SEQUENCE LISTING

<110> NAKAGAWARA, AKIRA

<120> HUMAN 1p36 HOMOZYGOUS DELETION REGION

<130> 7388-72613

<140> 10/069,723

<141> 2000-08-31

<150> PCT/JP00/05930

<151> 2000-08-31

<150> JP 12/136266

<151> 2000-05-09

<150> JP 11/245962

<151> 1999-08-31

<160> 88

<170> PatentIn Ver. 2.1

<210> 1

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 1

aaaccctct tcttagagt acg

23

<210> 2

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 2

aaacctcagc agtggctctg

20

<210> 3

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 3

aagcagtttt ccccataa

18

<210> 4
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 4
accaggagct gctcatgtg 19

<210> 5
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 5
actaacagct ccgtgacgc 19

<210> 6
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 6
acttggagga tttatttg 18

<210> 7
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 7
agctccgctc cctgtaat 18

<210> 8
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 8
agtagacacg ggtatcag 18

<210> 9
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 9
agtatgctgt gtgtccag 18

<210> 10
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 10
agtatggcag acttgatg 18

<210> 11
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 11
atacataaga taagaatc 18

<210> 12
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 12
atattgcaga ctgaacag 18

<210> 13
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 13
atctgatggtt tggagcttga g 21

<210> 14
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 14
atgaatggga caaacttc 18

<210> 15
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 15
catagtgtccc acacgcaaag 20

<210> 16
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 16
ccacctccaa atcctgac 18

<210> 17
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 17
ccctcaccga cacttcac 18

<210> 18
<211> 18
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 18

cctccagggt attcttgg

18

<210> 19

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 19

cggccttaaa atctgata

18

<210> 20

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 20

ctcaatactg gatctgtg

18

<210> 21

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 21

ctgcttcgga ggtcagcc

18

<210> 22

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 22

ctgcttcgga ggtcagcc

18

<210> 23
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 23
ctgggcaagc taattttg 18

<210> 24
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 24
ctgggcaagc taattttg 18

<210> 25
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 25
gaactcattg gcaaaaaggaa 20

<210> 26
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 26
gagcagcacc gtacaaat 18

<210> 27
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 27
gaggactagt gtcagaaa 18

<210> 28
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 28
gcctctttgt tgcagtgatt 20

<210> 29
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 29
gcgttaggaa ttgaacag 18

<210> 30
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 30
gtgaagagcc agagatgtcc 20

<210> 31
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 31
gtgactgcgt gattgcat 18

<210> 32
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 32
gtgttggagg ccaaattgtg

19

<210> 33
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 33
tggtttagag gcttttgc

18

<210> 34
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 34
tagctgaagc aatctatt

18

<210> 35
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 35
tctggacgta ctctgttc

18

<210> 36
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 36
gtgttcctca tatgggtca

18

<210> 37
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 37
tgggagtatg tctgccgg 18

<210> 38
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 38
ttccagttga tcagagtgcg 20

<210> 39
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 39
ttgaccgtgt ttgtcactta aa 22

<210> 40
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 40
tttctgcgt gtggcctc 18

<210> 41
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Primer

<400> 41
ttttcgtct ttccacac 18

<210> 42
<211> 20
<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 42

tttttgaggt gtgagagcag

20

<210> 43

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Primer

<400> 43

tttttgaggt gtgagagcag

20

<210> 44

<211> 5314

<212> DNA

<213> Homo sapiens

<400> 44

```

gaattccctt gctctccttc ctaccctttg gtctcgagaa cagaaggatc tctccttaac 60
gcctttcacc attaagagga aagcgatgga ggagctgagc gctgatgaga ttcgacggag 120
gcgccttgca cgacttgctg gtggacagac ctctcagcca accacccac tcacctctcc 180
ccagagggag aacctccgg ggcctcccat agcggcatca gcccaggac cctctcagag 240
tcttggtctc aatgtccaca acatgacccc agctacctcc ccaatagggtg catcaggagt 300
agcccatcga agccagagca gtgaaggagt cagttctctc agcagctcgc cctctaatag 360
ccttgaaacg caatctcagt ctctctcacg ttcccagagc atggatatcg atgggtgtctc 420
atgtgagaaa agcatgtccc aggtggatgt ggattcagga attgaaaaca tggaggttga 480
tgaaaatgat cgaagagaaa agcggagcct cagtataag gaggcttctc cgggccctga 540
agtgtctgaa gagcaggcct tacagctggt ctgtaagatc ttccgtgtct cttggaagga 600
ccgggacaga gatgtcatct ttctttcttc tctttctgca cagtttaagc agaaccctaa 660
agaagtattc tccgatttta aggacttgat tggccagatt ttaatggaag tgctaatag 720
ctccactcag accagagatg aaaacccatt tgccagtctg acagccacat cacagccaat 780
tgctgcagca gcacgggtcac cagacagaaa tctcttgcta aacactggct ccaatccagg 840
aacaagcccc atgttctgca gcgtggcttc ctttggtgcc agctctttgt ctagcctcta 900
tgaaagtagt ccggctccca ctcccagttt ctggagctct gttcccgtga tgggcccgtc 960
tcttgctca ccttcccgtg cagccagcca gttggctgtg ccttccactc cctcagtc 1020
tcacagtga gctctggaa ctgctgcggg aagccagcct tcatcccgcg ggtatcgccc 1080
ctacactgtc actcaccat gggcgtcctc aggcgtctcc attctgtcga gctcccaag 1140
tccccctgcc ctgcagta gcccacaagc agtgcccgcc agcagttcca gacagaggcc 1200
cagcagcacg ggtccacccc taccaccgc ctcacccagt gccacgagca gacgcccctc 1260
ctccctgagg atctctccta gtttgggagc ctctggtgga gcaagtaatt gggattccta 1320
cagtgaacct ttaccattg aaacctgcaa agagacagat atgctgaact acctcatcga 1380
gtgtttcgac cgagttggaa tagaggaaaa aaaagcacca aagatgtgca gccagccagc 1440
agtcagccag cttctgagca acatccgctc acagtgcata tcccatactg ctttagtact 1500
acaaggctcc ctaacacagc ccaggtcctt gcagcagccg tccttccctag tgccgtatat 1560
gctgtgtagg aatctcccat atggcttcat tcaggaactg gtgagaacca ctaccagga 1620
tgaaagaagt ttcaagcaga tatttatccc cattttacaa ggcctggctc ttgctgcaa 1680
agagtgtccc ctgcagagt actactttaa ataccctctc atggcactag gtgagctctg 1740
tgaaaccaag tttgggaaga cacacctgt gtgcaatttg gttgcttctt tgcggttggt 1800
gttgccgaaa tccttaagtc ctggctgtgg gcgggagctg cagagactct cttacttagg 1860

```

ggctttcttt	agctttctcag	tctttgcaga	agatgatgtt	aaagtgggtg	aaaaatactt	1920
ctcagggcct	gccattaccc	tggaaaaacac	tcgtgtgggt	agccaatcat	tgcagcatta	1980
cttagagctc	ggaaggcaag	agcttttttaa	gattctgcat	agtattttgt	taaatggcga	2040
aaccgctgag	gctgctctca	gttacatggc	ggctgtcgtc	aatgccaata	tgaagaaagc	2100
acagatgcag	acagatgata	gattgggtgc	tacagatgga	tttatgctga	atttcctttg	2160
ggtactgcag	cagctaagta	caaaaatcaa	gttagaaaca	gttgatccca	cgtatatatt	2220
tcacccaaga	tgtcggatta	ctcttcccaa	tgatgagacg	cgtgtgaatg	caacgatgga	2280
agatgtgaat	gactggctga	ctgaactcta	tggcgatcag	cctccatttt	ctgagccgaa	2340
attccctacg	gagtgtctct	ttctcacccct	gcagtctcac	cacctctcta	ttctgcctag	2400
ttgcccgtcg	tatatccgca	gactccgggc	tatccgggag	ctcaatagaa	ctgtagaaga	2460
tttgaaaaat	aatgaaaagcc	aatggaaaaga	ttccccactg	gcaactagac	accgcgaaat	2520
gctgaagcgc	tgtaaaaactc	agcttaagaa	actgggtacgg	tgcaaggcct	gtgctgatgc	2580
tggcctactt	gacgagagct	tcctgagaag	atgtctgaat	ttttatggcc	ttctcattca	2640
gctgctgctc	cgcacccctg	accccgcata	tcccgatata	acactgcctt	taaattcaga	2700
tgcccccaag	gtattttgcag	cgttgacctga	gttttatgta	gaagatgttg	cagaattttt	2760
atTTTTtatt	gtacaatact	ctccccaggc	gctttatgag	cctgtactc	aggatattt	2820
gatgttcctt	gttgatgtgt	tgtgcaacca	gaactacatc	cgaaaccat	atttgggtgg	2880
caaactggta	gaagtcatgt	ttatgaccaa	ccctgctgtt	cagccacgaa	cccagaagtt	2940
ttttgaaatg	attgagaacc	atcctctctc	caccaagttg	ttgggtacct	ccctgatgaa	3000
gttttataca	gatgttgagc	ataccggagc	caccagcgag	ttttatgaca	agttcacaa	3060
tcgctatcat	attagcacca	tttttaaaag	cctttggcaa	aacatagctc	accatggcac	3120
ctttatggag	gagttcaact	ccgggaagca	gtttgttcgc	tataataaaca	tgttgataaa	3180
cgacacgacg	tttttgctcg	atgaaaagtct	ggagttcctg	aagcgaatcc	atgaagtgc	3240
ggaagagatg	aagaacaaag	aacagtggga	ccagttgccc	cgggatcagc	agcaggctcg	3300
tcagtctcag	cttgctcagg	atgagcgtgt	gtcccgtctc	tacctcgccc	tggccaccga	3360
aaccgtggac	atgttccaca	tcctcacgaa	gcaggtccag	aagcccttcc	tcagaccgga	3420
gcttggacc	cgattggctg	caatgctgaa	ctttaatctt	cagcaacttt	gtggcccaa	3480
gtgccgtgac	ctgaaagttg	aaaaccctga	gaaatacggc	tttgaaacca	agaagctgtt	3540
ggacccaactg	acggatattt	acttacagct	ggactgtgct	cggttcgcga	aagccattgc	3600
tgacgaccag	agatcctaca	gtaaggaatt	gtttgaagaa	gttatttcaa	agatgcggaa	3660
ggcagggatc	aaatccacaa	tagcaataga	aaaattttaag	ctgctcgccg	agaaagtgga	3720
ggagatagtg	gccaagaacg	cacgcgcaga	aatcgactac	agcgcgcgtc	ctgatgagtt	3780
cagagaccct	ctgatggaca	ccctcatgac	agaccccgctg	cggctgcctt	ctggcaccat	3840
catggaccgc	tccatcatcc	tgcggcacct	gtccaactcc	cccacggacc	ccttcaaccg	3900
gcagacgctg	acagagagca	tgctggaacc	agtgccagaa	ctgaaagagc	agattcaggc	3960
gtggatgaga	gagaaacaga	acagcgatca	ctaaaccgtt	ccgccgcca	ccctctgcta	4020
gacacagcca	aggccaacga	ggcaagcaga	agcagcggcc	gcagcgaagc	tgctgttcat	4080
gtgttgagg	ccaaatgtgg	caaaccaacc	ccaggcccac	ccagagcgag	caaacgctga	4140
gacctgaaag	gacatggatg	agaagaggag	cccgcttccct	gtacatatat	ttaagtga	4200
aacacgggtca	aaagcttaag	ggacaggttt	tgtggttgct	tgtgtaataa	agcatgtcct	4260
tcgtatgtca	cagtttgggg	caacggaagt	cttttagtga	tggttaattg	gtctgggcag	4320
catcccttca	tgaatttttt	tttaatccaa	tatccgttga	tttgatttg	attagagaac	4380
cttggaacatt	ttgctgctaa	agaatctttt	ttccctctc	ccccttccctg	accctacttg	4440
cactgctgtg	gattttttta	agagaagcaa	aaacaaaagt	aaactccttt	ccctggccct	4500
ccaaacatat	attctgtgag	ataactgtgc	ctgctacca	gtgttaatcc	tgggatcgta	4560
tttttatatc	atattcacat	atttgttttt	tttaattggtg	ttagatgaca	tgattaataa	4620
aaaaggcaag	atattttcag	aatttgaatt	tcagtttttt	ttttcttttg	aaatgtccct	4680
ttaagatttt	tttattctaa	acaaaataaa	gaaaatcctg	ctgctctggg	ccttgtgata	4740
agcctctctt	cggcatctga	ggagcagctg	cagcaaaatc	taggggtgta	agtgtatcag	4800
gacttatgtg	acttatattt	tggggagatg	agggttgggt	ttttttttta	tgctacgtga	4860
cagtttgaaa	ccttcacagt	tatcctctgg	gggtaaatca	attcctcaac	ccttgggtgt	4920
gtgagtttga	ggcaggggtca	tttgtgtgat	gtgtttggcc	ttaccaaagc	aaaagagggg	4980
gcaagaatgt	gggagtatgt	ctgccgggtt	caacacacac	agacaaacac	agccacacgc	5040
gcacacaagt	ataagacttt	ttgtattact	gtccctact	taacatactt	gaattctcaa	5100
atttcctttg	gggtaaaaaa	aaaaaaaagg	tttgaaacca	taaagtgttc	tgaagaaatt	5160
aagtctataa	aaagcatact	ttcttttttc	tttctctttt	ttccctccac	agacaatgtc	5220
ctctgttcaa	ttcctaacgc	aaactacaat	aaatgggtgac	acacgttcag	aagaaaaaaa	5280
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaa			5314

<210> 45
 <211> 709
 <212> DNA
 <213> Homo sapiens

<400> 45
 ggcacgagggc caaacattga tttcagggct gccaggaagg aagagcagca gcaggggtggg 60
 agagaagctc cagtcagccc acaagatgcc attgtccccc ggccctcctgc tgctgctgct 120
 ctccggggcc acggccaccg ctgccctgcc cctggagggt ggccccaccg gccgagacag 180
 cgagcatatg caggaagcgg caggaataag gaaaagcagc ctctgactt tcctcgcttg 240
 gtggtttgag tggacctccc aggccagtgc cggggccctc ataggagagg aagcccgga 300
 ggtggccagg cggcaggaag gcgcaccccc ccagcaatcc gcgcgcggg acagaatgcc 360
 ctgcaggaac ttcttctgga agaccttctc ctctgcaaa taaaacctca ccatgaatg 420
 ctacgcaag tgtaatgaca gacctgaata aaatgtatta agcagcagt atctttcttc 480
 tcctccttcc caagtcattg aaaagtgttt gttattttaa ttccaataat gcccaatact 540
 gacgtgtctt gagtaatttg gaacccaaaa gtgaagatct ttgataaaga ttttttttgt 600
 ggttcgactg gactgtgctg agtgcgggca ctgggctttt cttctgatgt tcattatggg 660
 gctgggaagc tctgtctttg attttaaata aaatagctaa aggtacac 709

<210> 46
 <211> 1908
 <212> DNA
 <213> Homo sapiens

<400> 46
 gaaagatggc gtccctcgag caggcagagc agccgagcca gccagctct actccaggaa 60
 gtgaaaatgt gctgcctcga gagccgctga ttgccacggc agtgaagttt ctacagaatt 120
 cccgggtccg ccagagccca cttgcaacca ggagagcatt tctaaagaag aaagggtga 180
 cagatgaaga gattgatatg gccttcacag agtcgggcac tgctgccgat gagccttcgt 240
 ccttggggcc agccacacag gtggttcctg tcagccccc tcacctcata tctcagccat 300
 acagtcccg caggctccga tggcgagatt acggcgccct ggccatcatc atggcaggca 360
 ttgcatttgg ctttcaccag ctctacaaga aatacctgct cccctcatc ctggcgggc 420
 gagaggacag aaagcagctg gagaggatgg aggcgggtct ctctgagctg agtggcagcg 480
 tggccagac agtgactcag ttacagacga cctcgcctc cgtccaggag ctgctgattc 540
 agcagcagca gaagatccag gagcttgccc acgagctggc cgctgccaaag gccaccacat 600
 ccaccaactg gatcctggag tcccagaata tcaacgaact caagtccga attaaactct 660
 tgaagggtc tcttttaaat cggaggcagt tccctccatc cccatcagcc ccgaagatcc 720
 cctcctggca gatcccagtc aagtcaccgt caccctccag cctgcgggc gtgaaccacc 780
 acagcagcag cgacatctca cctgtcagca acgagtcac gtgctcctcg cctgggaagg 840
 agggccacag ccccgagggc tccacggtca cctaccactt gctggggccc caggagggaag 900
 gcgagggggg ggtggacgtc aagggccagg tgccgatgga ggtgcaaggc gaggaggaga 960
 agagggagga caaggaggac gaggaggatg aggaggatga tgatgtgagc catgtggacg 1020
 aggaggactg cctgggggtg cagagggagg accgccgggg cggggatggg cagatcaacg 1080
 agcaggtgga gaagctgcgg cggcccaggg gcgcagcaa cgagagttag cgggactagg 1140
 gctgcgcctg ctgcctccag ccctgaggat ggcatttagt gtgcccgtgc gtggccatac 1200
 cctgcctccc tctctggccc tgggagggca gcttgaggcc caggtagggg gcagagctgt 1260
 cctcagctgc actgcggcct ggtggcagtg tggggagtca cacttctgtc cacctggcct 1320
 cctctgcct ggccgcccag cccagcccca cggcccagc caggcccagc tgctttggc 1380
 tttgatctca agtcaggctg aaggcagcga agcctcgggg cccaagcccc tcccagccc 1440
 cctctcccg acagacgctt tgcccagggt gtgtttgctg agtgtcttga ctaccgtgac 1500
 accacgcag gccagagcta gcgtccctac tgccctccga ctctcagtg gaggaggagc 1560
 tgccgtccct ctgggtgtctg ccacccccct cctccctgg gcccgccct ggaccctgca 1620
 ggtgcctgtc cccagcccca accccactca tgcccgtcg tcctcccaga caaatgaaac 1680
 cacgtgcgc ttccgtgccc cccgcttgcc gtgtaatggt tcagctaata ccatggcgag 1740
 atgggggctc attccggagg aggagccagg cagcagggcc ttctgacca acagccagtt 1800

ttgtccttcc ccccaggaaa aaaatgttca tttgtgtgat catgtataga cctcagaacg 1860
 gaagatagga ctgtatataa ttgtaataaa taccagttgc cactattt 1908

<210> 47
 <211> 3281
 <212> DNA
 <213> Homo sapiens

<400> 47
 cgttcccaga gcatggatat cgatgggtgc tcatgtgaga aaagcatgtc ccaggtggat 60
 gtggattcag gaattgaaaa catggagggt gatgaaaatg atcgaagaga aaagcggagc 120
 ctcaagtata aggagccttc ctggggccct gaagtgtctg aagagcaggc cttacagctg 180
 gtctgtgaaga tcttccgtgt ctcttggaag gaccgggaca gagatgtcat ctttctttct 240
 tctctttctg cacagtttaa gcagaacca aaagaagtat tctccgattt taaggacttg 300
 attggccaga ttttaattgga agtgctaag atgtccactc agaccagaga tgaaaacca 360
 tttgccagtc tgacagccac atcacagcca attgctgcag cagcacggtc accagacaga 420
 aatctcttgc taaacactgg ctccaatcca ggaacaagcc ccatgttctg cagcgtggct 480
 tcttttggtg ccagctcttt gtctagtttg ggagcctctg gtggagcaag taattgggat 540
 tctacagtg accatttcac cattgaaacc tgcaaaagaga cagatatgct gaactacctc 600
 atcgagtgtt tgcaccgagt tggaaatagag gaaaaaaaag caccaaagat gtgcagccag 660
 ccagcagtca gccagcttct gagcaacatc cgctcacagt gcataacca tactgcttta 720
 gtactacaag gctccctaac acagcccagg tcttgcagc agccgtcctt cctagtgcg 780
 tatatgctgt gtaggaaatc cccatatggc ttcatcagg aactggtgag aaccactcac 840
 caggatgaag aagtgttcaa gcagatattt atccccattt tacaaggcct ggctcttgct 900
 gccaaagagt gctccctcga cagtactac tttaaatacc cctcatggc actaggtgag 960
 ctctgtgaaa ccaagtttg gaagacacac cctgtgtgca atttggttgc ttctttgcgg 1020
 ttgtgggtgc cgaatcctt aagtcctggc tgtggggcgg agctgcagag actctcttac 1080
 ttaggggctt tctttagctt ctcaagtctt gcagaagatg atgttaaagt ggttgaaaaa 1140
 tacttctcag ggcctgccat taccctggaa aacactcgtg tggttagcca atcattgcag 1200
 cattacttag agctcgaag gcaagagctt ttaagattc tgcatagtat tttgttaa 1260
 ggcgaaaccc gtgaggctgc tctcagttac atggcggtg tgcataatgc caatatgaag 1320
 aaagcacaga tgcagacaga tgatagattg gtgtctacag atggatttat gctgaatttc 1380
 ttttgggtac tgcagcagct aagtacaaaa atcaagttag aaacagttga tcccagttat 1440
 atttttcacc caagatgtcg gattactctt cccaatgatg agacgcgtgt gaatgcaacg 1500
 atggaagatg tgaatgactg gctgactgaa ctctatggcg atcagcctcc attttctgag 1560
 ccgaaattcc ctacggagtg cttctttctc accctgcag ctcaccacct ctctattctg 1620
 cctagttgcc gtcgtatat ccgcagactc cgggctatcc gggagctcaa tagaactgta 1680
 gaagatttga aaaataatga aagccaatgg aaagattccc cactggcaac tagacaccgc 1740
 gaaatgctga agcgtgtaa aactcagctt aagaaactgg tacggtgcaa ggctgtgct 1800
 gatgctggcc tacttgacga gagcttctct agaagatgtc tgaattttta tggccttctc 1860
 attcagctgc tgcctccgat cctggacccc gcataatccc atataacact gcctttaaat 1920
 tcagatgtcc ccaaggatatt tgcagcgttg cctgagtttt atgtagaaga tgttgagaa 1980
 tttttatatt ttattgtaca atactctccc caggcgcttt atgagccctg tactcaggat 2040
 attgtgatgt tcttgttgt gatgttgtgc aaccagaact acatccgaaa cccatatttg 2100
 gtggccaaac tggtagaagt catgtttatg accaaccctg ctgttcagcc acgaaccag 2160
 aagttttttg aaatgattga gaaccatcct ctctccacca agttgttggg acctccctg 2220
 atgaagtttt atacagatgt tgagcatacc ggagccacca gtgagtttta tgacaagttc 2280
 acaattcgct atcatattag caccattttt aaaagccttt ggcaaaacat agctcaccat 2340
 ggcaacctta tggaggagt caactccggg aagcagtttg ttcgctatat aaacatgttg 2400
 ataaacgaca cgacgttttt gctcgatgaa agtctggagt ctctgaagcg aatccatgaa 2460
 gtgcaggaag agatgaagaa caaagaacag tgggaccagt tgccccggga tcagcagcag 2520
 gctcgtcagt ctcaagcttg tcaggatgag cgtgtgtccc gctcttacct cgccctggcc 2580
 accgaaaccg tggacatgtt ccacatcctc acgaagcagg tccagaagcc ctctcctaga 2640
 ccggagcttg gaccccgatt ggctgcaatg ctgaacttta atcttcagca actttgtggc 2700
 cccaagtgcc gtgacctgaa agttgaaaac cctgagaaat acggctttga accaaagaa 2760
 ctgttggaac aactgacgga tattacttta cagctggact gtgctcgggt cgcgaaagcc 2820
 attgctgacg accagagatc ctacagtaag gaattgtttg aagaagttat ttcaaagatg 2880

cggaaggcag	ggatcaaata	cacaatagca	atagaaaaat	ttaagctgct	cgccgagaaa	2940
gtggaggaga	tagtggccaa	gaacgcacgc	gcagaaatcg	actacagcga	cgctcctgat	3000
gagttcagag	accctctgat	ggacacccctc	atgacagacc	ccgtgcccgt	gccctctggc	3060
accatcatgg	accgctccat	catctcgcg	cacctgctca	actccccac	ggacccttc	3120
aaccggcaga	cgctgacaga	gagcatgctg	gaaccagtgc	cagaactgaa	agagcagatt	3180
caggcgtgga	tgagagagaa	acagaacagc	gatcactaaa	ccgttccgcc	gccaccctc	3240
tgctagacac	agccaaggcc	aacgaggcaa	gcagaagcag	c		3281

<210> 48

<211> 5368

<212> DNA

<213> Homo sapiens

<400> 48

ggaatcagag	aagatcattg	ctgagttgaa	tgaacttgg	gaagagaagc	ttcgtaaaac	60
agaggccatc	agaatggaga	gagaggcttt	gttggtgag	atgggagttg	ccattcgga	120
agatggagga	accctagggg	ttttctcacc	taaaaagacc	ccacatcttg	ttaacctcaa	180
tgaagaccca	ctaattgtctg	agtgcctact	ttattacatc	aaagatggaa	ttacaagggt	240
tgcccaagca	gatgctgagc	ggcgccagga	catagtgtg	agcggggctc	acattaaaga	300
agagcattgt	atcttccgga	gtgagagaag	caacagcggg	gaagtatatc	tgacctaga	360
gccctgtgag	cgctcagaaa	cctacgtaaa	tggcaagagg	gtgtcccagc	ctgttcagct	420
gcgctcagga	aaccgtatca	tcattgggtaa	aaaccatgtt	ttccgcttta	accaccgga	480
acaagcacga	gctgagcgag	agaagactcc	ttctgtgag	acccctctg	agcctgtgga	540
ctggacattt	gccagaggg	agcttctgga	aaaacaagga	attgatatga	aacaagagat	600
ggagaaaagg	ctacaggaaa	tggagatctt	atacaaaaag	gagaagggaag	aagcagatct	660
tcttttggag	cagcagagac	tggactatga	gagtaaattg	caggccttgc	agaagcaggt	720
tgaaacccga	tctctggctg	cagaaacaac	tgaagaggag	gaagaagagg	aagaagtcc	780
ttggacacag	catgaatttg	agttggccca	atgggccttc	cggaaatgga	agtctcatca	840
gtttacttca	ttacgggact	tactctgggg	caatgccgtg	tacctaaagg	aggccaatgc	900
catcagtgtg	gaactgaaaa	agaaggtgca	gtttcagttt	gttctgtgta	ctgacacact	960
gtactcccc	ttgcctcctg	aattacttcc	cactgagatg	gaaaaaactc	atgaggacag	1020
gcctttccct	cgacacagtgg	tagcagtaga	agtccaggat	ttgaagaatg	gagcaacaca	1080
ctattggctt	ttggagaaac	tcaagcagag	gctggatttg	atgagagaga	tgtatgatag	1140
ggcaggggag	atggcctcca	gtgcccaga	cgaagcga	accactgtga	ctggcagcga	1200
tcccttctat	gatcggttcc	actggttcaa	acttgtggg	agctccccca	ttttccacgg	1260
ctgtgtgaac	gagcgcttg	ccgacgcac	accctcccc	actttttcca	cggccgattc	1320
cgacatcact	gagctggctg	acgagcagca	agatgagatg	gaggattttg	atgatgaggc	1380
attcgtggat	gacgcccggc	ctgacgcagg	gacggaggag	ggatcagatc	tcttcagtga	1440
cgggcatgac	ccgttttacg	accgatcccc	ttggttcatt	ttagtgggaa	gggcatttgt	1500
ttacctgagc	aatctgctgt	atcccggtcc	cctgatccac	aggggtggcca	tcgtcagtga	1560
gaaaggtgaa	gtgcggggat	ttctgctgtg	ggctgtacag	gccatcgag	cggatgaaga	1620
agctcctgat	tatggctctg	gaattcgaca	gtcaggaaca	gctaaaatat	cttttgataa	1680
tgaatacttt	aatcagagtg	acttttcgtc	tgttgcaatg	actcgttctg	gtctgtcctt	1740
ggaggagttg	aggattgtgg	aaggacaggg	tcagagttct	gagggtcatca	ctcctccaga	1800
agaaatcagt	cgaattaatg	acttgatttt	gaagtcaagc	actttgctgg	atggtaagat	1860
ggtaatggaa	gggttttctg	aagagattgg	caaccacctg	aaactgggca	gtgccttcac	1920
tttccagagta	acagtgttgc	aggccagtgg	aatcctccca	gagtatgcag	atatcttctg	1980
tcagttcaac	tttttgcatc	gccatgatga	agcattctcc	acggagcccc	tcaaaaacaa	2040
tgccagagga	agtcctctgg	ccttttatca	tgtgcagaat	attgcagtgg	agatcactga	2100
atcatttgtg	gattacatca	aaaccaagcc	tattgtattt	gaagtctttg	ggcattatca	2160
cgagcaccga	cttcactgc	aaggacagga	gcttaacagt	ccgcctcagc	cgtgcccgcc	2220
attcttccct	ccaccatgc	cactgtccaa	gccagttcca	gccaccaagt	taaacacgat	2280
gagcaaaacc	agccttggcc	agagcatgag	caagtatgac	ctcctgggtt	ggtttgagat	2340
cagtgaactg	gagcctacag	gagagtatat	cccagctgtg	gttgaccaca	cagcaggctt	2400
gccttgccag	gggacatttt	tgcttcatca	gggcatccag	cgaaggatca	cagtgaccat	2460
tatccatgag	aaggggagcg	agctccattg	gaaagatgtt	cgtgaactgg	tggtaggtcg	2520
tattcggaat	aagcctgagg	tggatgaagc	tgcagttgat	gccatcctct	ccctaaatat	2580

tattttctgcc	aagtacctga	agtcttccca	caactctage	aggaccttct	accgctttga	2640
ggctgtgtgg	gatatctctc	tgcataactc	ccttcttctg	aaccgagtga	caccctatgg	2700
agaaaagatc	tacatgacct	tgtcggccta	cctagagctg	gatcattgca	tccagccggc	2760
tgtcatcacc	aaggatgtgt	gcatggctct	ctactcccga	gatgccaaga	tctcaccacc	2820
acgctctctg	cgtagcctct	ttggcagcgg	ctactcaaag	tcaccagatt	cgaatcgagt	2880
cactggcatt	tacgaactca	gcttatgcaa	aatgtcagac	acaggtagtc	caggtagtga	2940
gagaaggaga	agaaaaatct	tagatacgtc	agtggcatat	gtcgggggag	aagagaactt	3000
agcaggctgg	cggccccgtg	gagacagcct	catccttgag	caccagtggg	agctggagaa	3060
gctggagctc	ctacatgagg	tggaaaaaac	ccgccacttt	ttgctgctgc	gtgagagact	3120
tggtgacagc	atccccaaat	ccctgagcga	ctcgttatcc	cccagcctca	gcagtgggac	3180
cctcagcacc	tccaccagta	tctcctctca	gatctcaacc	actacctttg	aaagcgccat	3240
cacacctagc	gagagcagtg	gctatgattc	aggagacatc	gaaagcctgg	tggaccgaga	3300
gaaagagctg	gctaccaagt	gcctgcaact	tctcaccac	actttcaaca	gagaattcag	3360
ccagggtgcac	ggcagcgtca	gtgactgtaa	gctgtctgat	atctctccaa	ttggacggga	3420
tccctctgag	tccagtttca	gcagtgccac	cctcactccc	tcctccacct	gtccctctct	3480
ggtagactct	aggagcaact	ctctggatca	gaagacccca	gaagccaatt	cccgggcctc	3540
tagtccctgc	ccagaatttg	aacagtttca	gattgtccca	gctgtggaaa	caccatattt	3600
ggccccgagca	ggaaaaaacg	aattttctca	tcttgttcca	gatattgaag	aaattagacc	3660
aaagctcagtg	gtctctaaga	aaggatacct	tcattttcaag	gagcctcttt	acagtaactg	3720
ggctaaacat	tttgttgtcg	tccgtcggcc	ttatgtcttc	atctataaca	gtgacaaaga	3780
ccctgtggag	cgtggaatca	ttaacctgtc	cacagcacag	gtggagtaca	gtgaggacca	3840
gcaggccatg	gtgaagacac	caaacacctt	tgctgtctgc	acaaagcacc	gtggggtcct	3900
tttgcaaggcc	ctcaatgaca	aagacatgaa	cgactggttg	tatgcccttc	acccacttct	3960
agctggcaca	atacgggtca	agctttcccg	cagatgcccc	agccagtcga	aataactaagt	4020
gactctgccg	agtgcctca	ctcgccttcg	agagataaag	aaagcgttac	ctctcatttc	4080
tctttgtgat	tcttgacggg	gactcctgta	tgtaatcctg	tggcttaact	acttctccct	4140
ccttgtccag	cacttttcta	gctctcccg	tccccatctc	cattgtctctg	tactcttttc	4200
ttttttcttg	tgctgagaat	ctcggttagta	gcactgtggc	taacaaaagg	aaaaaatggt	4260
tttaaacaca	cacacacaca	cacacacata	cacacacata	cacagacaaa	aacacaaaaa	4320
ctctgagggg	atctgggtgaa	tctccaaatt	attgtgggtg	tactttgggt	tccttttgta	4380
tgataggtcc	ccatcatgac	cacctctgat	gtctgtgctg	ctgtcaccag	gcacctttgt	4440
ttttcaagac	aacatacttt	ttttttcttt	tctctgtttg	tgatatcact	ttaatttttc	4500
ttgggtgggt	tagagactaa	gggaggagac	atctggcctt	tttagaacct	gagaggaaaa	4560
aaagagtctt	ttttccctct	ctgtctcttt	ttgccatggc	taatccctgc	atttccattc	4620
aggggaaaagg	tggtagtggg	catagaactg	caacagttat	attctgagtc	aaagttgggg	4680
ctttttacgg	cataattatg	gaatttttat	ttactggtag	agaggagacg	agaggctttt	4740
tcagtgggccc	tgggacagtg	gctgctcttg	actttgtgtg	aagggaaatg	ccaaggatgc	4800
ttctgggtgga	cttcagggga	ccccagggtt	tggccgtggg	ccgtgatggc	agcaggcggg	4860
gggatgcttg	tagctcctca	cagcaggatt	cctgcccact	gttttttctc	tgttgggagg	4920
gaagctcttt	tctaggagtg	tctcagttct	gcttttggca	ttagtgtatg	tgggtgtaca	4980
gttggaatta	gtgccatgtc	atacacaaat	gttccacaag	gcgggagtg	ttcactttct	5040
ggtgataaac	ttgatggta	ttgttatgat	taagataatg	ccgggcaggc	cgggcacagt	5100
ggctcacgcc	tgtaatccaa	gcacttgggg	aggccgaggc	gggcagatca	cgagatcagg	5160
agttcaagac	cagcctggcc	aatgtgatga	aaccccgctc	ctactaaaaa	tacaaaatta	5220
gtcgggtatg	gtggcacatg	cctgtaattc	cagctgcttg	ggagcctgag	gcaggagaac	5280
tgcttgaacc	caggaggcag	aggttgcatg	gagccaagat	cgcgctattg	cactccagcc	5340
tgggtgacag	agcaagactc	tgccctcag				5368

<210> 49
 <211> 422
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (1) .. (422)
 <223> EST

```

<400> 49
aaacagctaa ataatgtggt tatttattaa agatacatta ataattcttg taattgatgc 60
aggttttctt ttttctacag actactatta ttttattctt gtctctctgg aaaatgaaaa 120
atccattagt ttttctcttt tgcttttacc cagaaattaa aggttggtta gtggttaatta 180
gcgtagtcct gtcaaagcca gttgcctcat gaggaccgac atttgactta agctgaaata 240
atggaatatg gctaagttaa agttcattag tcccagctgc tttctttgac attcttttct 300
tctaccacaa gaacggggcat gccctgccct ctctcactcc tatttttaga cgtattgctg 360
cgctcctatg tgtctattct acaggctgga ggcacagtgg ttatagggaa ggtaatggta 420
at                                                                 422

```

```

<210> 50
<211> 320
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (1) .. (320)
<223> EST

```

```

<400> 50
gtaagtgggc ccacgtcaca cactggcccc agtgatcgta gcgttgtagg aagcgctgcc 60
atatttcatt gaatttagcc attctggaat gacgtgttca tgaagtcggc tcttgcattha 120
ccgtggcctt tattattgct aatgcattct gacattacag gtgtagcctt ggctctccca 180
gaaagggcaa ggctgctctt accaaacgga agagcagaat tcatgatact cttacacagt 240
gaggccagtg ttcaccttta gttactaagc agagtaaggg aaataaatgc ttttatagaa 300
aagatagcca gtgacagcag                                                                 320

```

```

<210> 51
<211> 446
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (1) .. (446)
<223> EST

```

```

<400> 51
gttttaactg ttcaatttta ttattagtta acactgttaa tctcttagtg tacctaactt 60
ataaattaaa ctttaccaaa ggtatgcaag cataagaaaa acatagtaca tacagagttc 120
ggtactagcc gaggtttcag gcatccactg gaggtcttgg aacgtctcct ccgtgggttaa 180
ggcggggact aacgcaccca taatttgctc catattgcac aaaatgcttc cctccatggc 240
agctagagtt ctggatggga attaggtacc accaattagg tgcactcatg gacaatttgg 300
aaagtggaaa tgaggcagag gactgctgtt cttgctgctt ttgattgctg caaatatcag 360
cagatgggca ggcaggatat tggaaacact gaggtttcct attgtaatgt ccagtctcca 420
gcttcatggg gggatcaagag ccaatt                                                                 446

```

```

<210> 52
<211> 443
<212> DNA
<213> Homo sapiens

```

<220>
 <221> unsure
 <222> (1)..(443)
 <223> EST

<400> 52
 ttgaagattt tacattgata agtcacattt acggactcac ctctcaaaaa aatgttaggt 60
 ttttatattt tacggttttc agtatagccg taatcattca agtttaacca ctttacttca 120
 tttgaattaa aaagtcaatg tagtatttta atattaagac atttagtatt ttcagaaagt 180
 attccttata aaagacttgc tcaactgaca acttatagtt agaataaatg actctttaac 240
 cactttttcc cccatagaca aaatgaagta aaatctcagg gaactaacag aggactttat 300
 ttctgatgaa agaggagcag ctatggcttg agactgctaa ccctactcca aacacacaaa 360
 agcagctacc tctctcctgg cccaaatgca cacacaggat gacttagcat ttctagaagg 420
 aagctttgta agatgactgg tgc 443

<210> 53
 <211> 437
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (1)..(437)
 <223> EST

<400> 53
 gctcgaccag acacaagcat tttgagtaag agagtcaggga atatgtctaa catgcaaagt 60
 acaagaaacc ccatggccag agtggagaaa gttaaattaag gagtattggc tagatagtgt 120
 aaactttaga atgacagtcg gaggcaagag tttggaactt ttgttgccat ggacctcttt 180
 ggcagtaacg aagccttaga attatgtttt caaatgtgag aaataaagta tttaggatta 240
 caaaggaaac cgataatatt gaaatacagt tggttaaaaca ttaagctctt ctttactgat 300
 gcatgaaata acaagattta gcagttattc taattaccat aatttccaag tagtgatcaa 360
 tgaaaaagat atcttgcgtc caggcacggt ggctcacgcc tgtaatccca gcactttagg 420
 aggctgagat gggcgga 437

<210> 54
 <211> 302
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (1)..(302)
 <223> EST

<220>
 <221> modified_base
 <222> (117)
 <223> a, t, c, g, other or unknown

<220>
 <221> modified_base
 <222> (205)
 <223> a, t, c, g, other or unknown

<220>
 <221> modified_base
 <222> (236)
 <223> a, t, c, g, other or unknown

<220>
 <221> modified_base
 <222> (271)
 <223> a, t, c, g, other or unknown

<400> 54
 cgtccctcaa gttccctaag cttgccaggg gctgaaaccc agatcaaagc tttttggagg 60
 aatcagcctt ctgaggactt tcctctgcat ctgctcagtg ggtggcatct ggaaatnaca 120
 ggcacttctc gcctctgtcc actgctctct gtgggcatcc cagtctacct ggacagtctt 180
 cctgcccagg cagggcaagc ctctnacgga tccccctaag gggcagcatg gggctnggca 240
 gggcaggcca tccagagtga gaccaagcct ncagcaggag agaaggccgg tcgctggttt 300
 gt 302

<210> 55
 <211> 450
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (1)..(450)
 <223> EST

<220>
 <221> modified_base
 <222> (1)
 <223> a, t, c, g, other or unknown

<220>
 <221> modified_base
 <222> (122)
 <223> a, t, c, g, other or unknown

<220>
 <221> modified_base
 <222> (424)
 <223> a, t, c, g, other or unknown

<400> 55
 nattcggaac agggccagtc ggtgcagcaa acttcagggg agccatgcgc attggagcag 60
 aggtttacca caacctgaag aatgtcatca aggagaaata tgggaaagat gccaccaatg 120
 tnggggatga aggcgggttt gctcccaaca tcctggagaa taaagaaggc ctggagctgc 180
 tgaagactgc tattgggaaa gctggctaca ctgataaggt ggtcatcggc atggacgtag 240
 cggcctccga gttcttcagg tctgggaagt atgacctgga cttcaagtct cccgatgacc 300
 ccagcaggta catctcgctt gaccagctgg ctgacctgta caagtccttc atcaaggact 360
 taccagtggt tgtctattcg aagatccctt tgaccagggt gactggggag cttggcagaa 420
 tttnacagcc atgcaggaat tccaggtagt 450

<210> 56
 <211> 504
 <212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (1)..(504)

<223> EST

<220>

<221> modified_base

<222> (336)

<223> a, t, c, g, other or unknown

<220>

<221> modified_base

<222> (346)

<223> a, t, c, g, other or unknown

<220>

<221> modified_base

<222> (360)

<223> a, t, c, g, other or unknown

<220>

<221> modified_base

<222> (366)

<223> a, t, c, g, other or unknown

<400> 56

```
aattcggaac gaggtgaag tggggacaaa taagccccgc cccttctagg tactttgaca 60
aaaacaggaa cacaataaaa gagcagacct ctggaggctg aggcaggaga atcacttgaa 120
cccggcatga ggaggttgca gtgagccaag atcatgccac cctactccag cctgggtgac 180
aaaagcaaga ctctgtctca aaaaaaaaaa aaaaaaaaaa agatctcaca atgatacagt 240
cagttctcaa gtggcatctg ttgaagcagt ggatgtcgtc acccaatatt agaataatgac 300
ttaaaccaaa ttaaaacttt acttttacac aggagntttt atgggncaca ttgaaagggn 360
ttcctncctg gtgcccaggg gagcccaaga acttattaga aaggccttca ttggtccatc 420
catttctgtt cctgtttggg gtcacttggt ggctttgtct ttgacttggt agttgtttct 480
ctatcttctg tgcctttggt agaa 504
```

<210> 57

<211> 281

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (1)..(281)

<223> EST

<400> 57

```
aaaaacaatg tcattttgta cagacaaaat ttagcagact caagcttcca cagttagtgc 60
gagagcctgt ggatggcata gttacataag agtctgttgt ggattcaa atgtcacctctt 120
ccaggcagtc tttctgact taccctggca gctttgtgtt cccacattac tagtaatggt 180
tttttcctta atagcaatga tttcactgta ataatgtatt tatatgcctc tctccccag 240
acagcaagcg ttttcccaca ggtctcgaca cacagaagat a 281
```

<210> 58
 <211> 434
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (1)..(434)
 <223> EST

<400> 58
 aagaaagctt atattaagca cacattacat taaagtactg tttgcacaca cagtaaagat 60
 gagattgcct ttctgcctat ggcaatggct agtccaagtg tgggagcatt gaaggccatt 120
 attatagatt tcccttttta gataattctg taattctatg gcagggacat cagctccatg 180
 actacacaat cacacattca ctagatagca ccttggttatg ttaccagaat atagccctta 240
 gctccaaatc aatgctatat aaacattcta ttctgaagct ttttaaacag aattttcata 300
 attactctgc atttttgaga atccttatac tttgacctag cagactgaag gagaacaggg 360
 atgagagagg ggaatatgga aaggatacgt tagcagaaag ttcaatgaag ttacttcaaa 420
 aagtgaaca aact 434

<210> 59
 <211> 496
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (1)..(496)
 <223> EST

<220>
 <221> modified_base
 <222> (443)
 <223> a, t, c, g, other or unknown

<400> 59
 ggaagatcca agagcaagct tccaagagga caagacagaa gctgtgtatt gcccttttac 60
 agcctaggct tggaaagtcac atagtgtcac ttcagcagca gtcacaagcc tgcctggatt 120
 gaaggggaag aaatgcagaa cccgcctcat gctgggaggg aggtcaacgt cactctgtga 180
 gaagatcttc tgggatggga gacgtcgttc tgaccatctt gcaaataaca tttgccacgt 240
 tcctcctctg gcaacaattt acattcttca tatctgcaaa tgatgcctta tttccttccc 300
 gtgagattcc caaaccgcat cccatcaggg catccgcttt caagtccagc atctcattca 360
 ttgaaaattc aagtccagct ggcagatgga ggcttcttca ggatggggat tctttggaac 420
 gtagttcctt tggagtgtta atncttaacg ggatttttaa agatctgtta attgaaaggt 480
 accaagttta cctacg 496

<210> 60
 <211> 51474
 <212> DNA
 <213> Homo sapiens

<400> 60
 aagtgaattc tggtgattca tagcaaaaaa tataatactg ttgtttctca taattctact 60
 tttgggggta tattcccaaa gttggaggaa aaaggaataa ttttgtttac ataaatcctc 120
 ccagtagtaa cattatttat aatagaaaaa aattagaaaa aagaaatatg cagggaacg 180
 gctctggaat cagtagttta ttaacataat ttaataccat ttcgagattt aaatatttct 240

gtatttgtgtt	gaaaaatgga	gattttatatac	aatacatcag	taaggaacat	caccaaagat	300
tggtgatggg	ctgggaatgg	tggctcacat	ccataatccc	agcacttttg	gaagctgagg	360
tgggaggaga	gcttgagccc	aggagttcaa	gaccagcctg	ggcaaaaataa	ggaaacccca	420
tgtctacaaa	gaaaaaaatt	agcccagcat	ggtggcacat	gcctgtgttc	ccagccaccc	480
aggagactga	ggcaggagga	ttgcctgagc	ccaggaaatt	gaggctgcag	tgatctgtga	540
tcttaccact	gcactgcact	gcagcctagg	tgacactagg	tgacagagta	agacctctt	600
aaaaaaaaaa	aaaaaaaaag	atttgtatgg	acatctgtat	gcacatttaa	cgaggtagga	660
cagaatacgg	tggtccttga	atggagctaa	caggaattct	cttcttcttg	tagtattgtt	720
taagtttata	attgcaaaaag	tatccttaaa	cttctggcgg	ggcatgggtg	ctcacgcctg	780
taatcccagc	actttgggag	gccaaggagg	gtagattgcc	tgaggctcagg	agttcgagac	840
cagtctgagc	aacatgggtga	aacctcgtct	ctcctaataaa	tgcaaaaagta	gccaggtgtg	900
gtagcacacg	cctgtaatcc	cagcttacta	gggagggtga	ggcaggagaa	tcacttgaac	960
ctgggaggcg	gaatttgcag	taagccaaga	togtgaact	gcacttctgc	ctgggtgacg	1020
agagcaaaaag	tccatctcaa	ataaataaat	aaataaataa	acaaataaaa	agtatcttta	1080
aacttcataa	aaattcaaat	gtaattttct	cttctgaatt	cagctttttc	tctgattgag	1140
acatgtaata	gattttattt	agggaaatgat	gttatttttc	ctagatggcg	atcagcctcc	1200
atcttctgag	ccgaaattcc	ctacggagtg	cttctttctc	accctgcatg	ctcacccact	1260
ctctattctg	cctagttgcc	gtcgctatat	ccgcagactc	cgggctatcc	gggagctcaa	1320
taggtatgtg	ccatgatacc	gtgtcctggg	attgcctgag	ttaccacttt	ttctcagggg	1380
caggcaattc	cattgtgaac	agtagttttg	aatgttgggg	gagggtatgta	cgttatatag	1440
tgttctgtct	gcctccaccg	ccacatccat	gttgctcagt	tgtccagagt	tctttacctg	1500
gtgaagtgat	ccaaaccttg	atctctgaga	gttctgaacc	ctggatatatt	cactctgttt	1560
atgggtacta	cagacttcca	ttaacttttc	ccactgggca	tacattacca	ggaggcactt	1620
caaactttaa	aagtttaaag	gatccccctg	gtttcagaca	taccccttct	tccctggact	1680
gtgaaaaagt	aaccatgggt	tcccttgata	accaggatca	tttactcctg	cctacatgta	1740
attctctttt	tggcttggtc	tgtggcatga	gggggtccaaa	atggccagat	agcagcctca	1800
aattttccaat	tcattagcac	catggttgtg	tttcttactc	taagcatttt	ttcctgtgta	1860
ctaaccacaa	caaacagaag	tcacaggaac	acagaagcaa	atatttttga	gcaggttatc	1920
tgggaataata	atgatgccac	ttctgctttt	tgggtctagaa	cctgcgtagt	ctgtctatga	1980
gagaaactga	atcatattta	tatctctgta	tctaccttgc	ttaaatcact	tactaattct	2040
tttttttttt	tttttttttt	tttttttttt	gagacggagt	ctcgctctgt	tgcccaggct	2100
ggagtgcagt	ggtacgatct	cagctcgggtg	caacctctgc	ctcccagggt	caagcgattc	2160
tccctgttca	gcctcccagag	tagctgggat	tacagatgtg	caccaccacg	cctggccaat	2220
tttttttttt	tttttgatgg	agtcctactc	tgatgtccag	gctggagtcc	aatggcatga	2280
tctcggtcca	ctgtaatctc	tgccgcctgg	gttcaagcaa	ttctcctgtc	tcagtctcct	2340
gagtagctgg	gactacaggc	gcccaccacc	acaccagct	aattttttgt	atttttagta	2400
gagacggggg	ttaccctgtg	tagccaggat	agtcttgatc	tcctgacctc	gtgatccgcc	2460
cgcctcagcc	tcccaaagtg	ctggaattac	aggcgtgagc	ccatgcacct	ggcccaattt	2520
tttgtatatt	ttgtagagac	ggggtttctc	catgttggtc	aggctgggtc	caaattcctg	2580
acctcaggcg	atccgactgc	ctccgcctcc	caaagtgcctg	agattacagg	tgtgagccac	2640
cgtgcctggc	ctaaaatcac	ttactaattc	taatagttaa	ctctgcaaat	tctttatgat	2700
ttactttcta	cacataatca	tgtctataaa	tgatgacaat	tttatttctt	ttactttttt	2760
tttcatgcct	tagtgcccag	gctgtaattt	ttagtacaat	gttgaataga	aataaccttg	2820
aaattttccat	cttgtttcag	tgggtggagg	aaagctttct	atatatcctc	agttaccaga	2880
ttaagaaaaat	ttccttttat	ttcaatagtt	agttccctta	gcactgggtg	aattttatta	2940
aatactttttg	ccatatctgt	tgaggagact	agactttttt	cttctctatt	ctgttaattg	3000
ggttgaatta	tatcagttgg	ttttctgtta	ttaaaccagt	ctttctttcc	tggagttaaac	3060
ttaacttttta	tattaatggt	tttatatcta	attggatata	caatttgcta	atattctggt	3120
taggatttttt	gcattctgtt	aaaagaaagc	ctgacctgta	attttccatt	cttggttaagt	3180
gcattctcaa	ttttgggtat	aaggttatgc	tgccttatag	aagaaactgg	gggctgggca	3240
cagtggctta	cgctgtaat	cccaacactt	tgggaggccg	aggcagacgg	atcacctgag	3300
gtcaggaggt	ggatgctagc	ctggccaaca	tagtgaaaac	ccgtctctac	tacaaaaatt	3360
agctgggcat	ggttggcgca	tgctgtaat	cccagctact	tgggaggcta	tagcaggaga	3420
gtcgcttgaa	ccggggaggc	ggagggtgta	gtgagccaag	accgagccac	tgtactccag	3480
cctgagcaag	agttagactc	tgtctcaaca	aaagaaaaaa	aaaaagaaag	aactggagaa	3540
tatttctctg	ttttttatgt	tccttggaag	agtttatgtt	ataagaatta	tgttgtttct	3600
tccttaaatg	tcagaaaaaa	ttcagtgtat	aagttgtcag	ggcttaagag	ttttctgtgt	3660
ggggatggtt	ttaattatgg	atttaagaca	gttaatatat	ataagactat	ttagattttc	3720

attacatctt	gtgtcagttt	ttctaaagtt	tgaaaatggt	ttggcatgaa	gttggtcata	3780
atataccttt	atcatttttaa	tgtctgtagg	atccttatta	tttctgcttt	tattttattta	3840
tttttagtttt	tgagaggagg	ttcactcttg	ttgcccaggc	ttggtgcca	ggcaggagtg	3900
caatggtgca	atccttggtc	acctcaacct	ctgctctcca	ggttcaagt	attctcctgc	3960
ctcagcctcc	tgagtagctg	ggattacagg	catgtgccac	cacgccagc	taattttgta	4020
tttttagtag	agacagggtt	tctccatggt	ggtcaggctg	gtctcgaact	cctgacctca	4080
ggtgatttgc	ctgcctaggc	cttgctggga	ttacagggtg	gagccactgc	acccggccca	4140
ttttaattgg	ctttctactg	cctcttgaga	tggatattta	gatcatcctt	tccaaccctt	4200
tcgcttatgt	gtatatttaa	gactattttg	tttccctctt	agtgtgacct	tagctgcatc	4260
cctcattttt	gttatatcat	atcttattac	tcagttcaaa	atgttttcta	atttttggtt	4320
gttcttatgt	aacctgtggg	ttatttcaaa	atatattatt	taaattctag	gttcttaggg	4380
tatttgtcta	tgtatctttt	gttaattgat	ttctagataa	attccatcat	ggtaagaaaa	4440
tataattttat	gtgatttgtg	tcttttgaag	tttattgaaa	tttactttat	agccttttac	4500
attagtagac	ctgaaaagac	tgctatctgt	gttggtttta	cagtgttcca	catatattat	4560
ttagggtcaag	tttggttaatt	ttctgttcaa	gttttcctta	tatctaata	ttttatcagc	4620
ttataaatca	aatcactgag	agaagcttat	aaaaaattca	aactatgatt	gtggatttat	4680
ctgtttcttt	atcctccgat	ggattacctc	ctgggataca	gtcactcccg	ctggcttttag	4740
agggtccatt	tcaatggaac	catctagaac	ctttgctcct	ggcttgagc	agatagcctt	4800
tatttgtctt	tccagagaca	tttatgttca	cctcatctgt	gtatttttca	atgctgtgat	4860
ttaagaagta	tcttctagga	catagttggg	gtgtgtatat	gcgtattgga	aagaggatta	4920
tctgagcaaa	tcacataaag	taaatccacc	ttaattttcc	aagctcttta	agttttgaat	4980
catttctctt	gaattagatc	aaagaatat	tggcaactca	gcttcattca	gtataggcca	5040
ctgtcaattc	aaagtttggg	tcaactagtt	gggtgcataa	tatgaacctc	tcccaactca	5100
gaataatact	gaattcaggg	tctctggtag	gtataatcat	gtcagtgatt	ttagccctac	5160
atagaagtat	atcagcattt	tcttctcttg	ctgatcaagc	atcctcagaa	tccattccca	5220
tacataatcc	tacataaccg	tcattgttct	gcagtacata	tgtgggttgg	agagtaatgg	5280
catctcaaag	gtgcccacat	cctggtctcg	gaacctgtga	atatgttatc	taacttgatt	5340
aaagggactt	tgcagctgtg	atatacaggt	catgactctt	agggtggggag	attatcctgg	5400
attatgtggg	taggtccagt	gtcattgcaa	aggctctcat	aagaggggaat	caggaggggc	5460
acagggagag	acggaatgtg	atggggaagc	agagggttga	gtgggttggg	gtcatgagcc	5520
aatccggtaa	cctctggaag	ctggaaaagg	cgaggaaact	tgttctcccc	tagagcctcc	5580
agaaggaacc	atccctgctg	acccctttta	gacttccaga	actctaagac	tataattgtg	5640
tgggttggag	ccactgaggt	tgtggtaact	tgttacagca	gcaatagaaa	actagcataa	5700
cacattagca	aaacttgcca	ttttttttct	tcaaatatgt	gcttctgttg	catccaattt	5760
tgtataaatg	ccataaggac	agtccttgat	ctgactctag	ctgtgggttct	ggaagcgaag	5820
agggatgatg	ggttagaacc	taggggaaaa	tagcattacc	ctgcaagggtg	actatctctg	5880
atgagggtcat	tatagaaact	gcttctgcta	gcaagcaagg	ctcaggggaat	ttagagattt	5940
aggtaacttg	agtcaactag	ttctcccaaa	ctcctccatt	tgaactcttt	gggtcccagt	6000
ctttgcctta	actttcagat	aagagggtcca	gcaaagttat	taatttcttc	tgtactgtaa	6060
ttgttagaac	tggagctgct	cctttccttt	aacaacagtc	ttagaaactc	ctgatttaatt	6120
cacatttctt	ggagataaga	atttaaaatc	tgaagcctgt	catttttttt	tttctataag	6180
ctccaccaca	taattagagg	tagccactcc	acatcctcat	tccagatcac	cagggatcat	6240
gtatatagct	gtttttctac	tcagagcctt	gggtaccag	tgttccatcc	tcaaatacta	6300
attgtatctt	caccatgcag	cccaatcaaa	gaactgatcc	cagagcccca	tttttttcat	6360
gaaggcctgt	tacctataaa	ctcttgtgat	acctgtagcc	atataggcca	ttatcttagt	6420
ttcctatgac	tgcaacaaca	aattaccaca	accttagtca	cttaaaacaa	cacatattac	6480
agttctgaag	gtcaggagtc	ctaaaatcgg	cccagcgcag	tggctcacgc	ctgtaatccc	6540
aacactggga	ggccgaggtg	ggcagatcac	atgagggtcag	gagttcgaga	ccagcctggc	6600
caacatggtg	aaacctcgtc	actactaaaa	atacaaaaat	tagccgggtca	tggtagtgca	6660
tgcattgagt	cccagctact	caagaggttg	aggcaggaga	atcgcttgaa	cacgggagac	6720
ggaggttgca	gtgagctgag	attgcgccac	tgcactccag	cctgggagac	agagcgagac	6780
tgtctcaaaa	aaagaagatg	aagggtgcat	tccctgcaga	ggctctaggg	gagaattctc	6840
tttgccctttt	ccatcttctg	aaagctgcct	acgttctctt	gctccttatc	acccccacc	6900
ccacccacc	ttactgtatt	ttcaaagcca	gcaacatagt	atcttttagat	ctccttcgct	6960
tgcctggtgt	atcgagcac	tttgggaggc	tgagggtgggt	ggatcacttg	aagtcaggag	7020
tttgagaccc	gcctggccaa	catggtgaaa	cccttttcta	ccaaaaata	caaaaattag	7080
ccaggcatgg	taacgcaccc	ctgtagctgc	cactactcag	gaggctgagg	tacgagaatt	7140
atttgaaccc	aggaggtaga	ggttgcaatg	agctgagatc	gtgccactgc	actccagggc	7200

aacagagtga	gagaccctgt	ctcaaaaaag	caaaaaacaa	ggctggggcac	gtgtctgaca	7260
cctgtaatcc	catcactttg	ggaggccaag	gcaggtggat	catttgaggt	cagaagttcg	7320
agatcagcct	ggccaacatg	ttgaaacccc	atctctacta	aaaatataag	ttagccaggc	7380
ctggtggcag	gtgtctataa	ttccagctac	ttgggaggct	gtggcaggag	aatcgcttca	7440
accggggagt	cagaggttgc	agtgagccag	atgatgccag	ttactccag	cctgggcaat	7500
agagtggagg	tcagtctaaa	aaaaaaagac	aacaacaaga	tctccttctc	tctctgacct	7560
ttgcttccat	tgtcccattg	tcacatctcc	ttctctgtct	ctgagtcctt	ttttctctta	7620
gaaggacctt	tgtgattata	ttgggcccctc	caaaatcatc	caagatactc	ttcccatctc	7680
aaatccatac	ccttaatcac	atctacaacg	tccctttctgc	catgggagat	cacatgttca	7740
cagggtccct	cgaaggattc	ggatgcgaca	agtttggagg	agccattctt	ttgtctacca	7800
tactcatgtt	tcagttgtag	acgaaagaat	ccaattcttc	tgggataagc	agaaaaggga	7860
actagttggt	ttactgaatc	attggaatgg	ctataataga	agattcccag	agctatactt	7920
tgaacaagga	agctgcttcg	gaggtcagcc	tgacagcaca	gcctctgcca	cagcttcagc	7980
caaaacccct	ctaccactgt	acttccagaa	ggatcatgca	atcacgcagt	cacttcacag	8040
tactcactct	gccttcagtg	agggttcctc	ttggtgaaaa	ctaggtctta	cagaaatgct	8100
ggcaggaggg	gagtctagga	aatgtagctt	ttggagattt	agcagcctct	agtattacac	8160
acaacatcat	gatagaaagg	ggttgaaata	gtgttaagag	agtcgggtctt	caaaatatgc	8220
agcctattag	gtgatgggga	agcctgttac	tgcagagaca	gatgggtgtt	gagcagacac	8280
ctgagggggag	tgaaggagca	aagccagaga	taacctcaga	gaagagcatt	gcgagcagag	8340
ggaacagttg	taaaggacga	tgccgttaag	aaaatagcct	tttgttttgg	gtaattgaat	8400
aggcaaagta	acctcgaatt	ttcatgagag	acttcttttt	ttccctccca	gaaaaataag	8460
ggaacaatgt	acttttctgc	aacaaaaaag	atgattatat	tcaccaaata	tgtagtcca	8520
tccattcaaa	gacacatcat	tgttttagga	accaataaaa	aagaaaaata	tggcccgcag	8580
cagtggctca	tgctgtaat	cccagcactt	tgggaggctg	gggcaggcag	accacaaggt	8640
caggagtttg	agaccagcct	gcccacata	gtgaaacctc	atctctacta	aaaatagaaa	8700
aaattagctg	ggcatggtgg	tgagcacctg	taatcccagc	tacttgggag	tttgaggcag	8760
gagaatcact	tgaacccagg	aggcggaggt	tgcagtgagc	tgagattgca	gcactgcact	8820
ccagcctgat	gcagagcgga	gactctgtct	taaaaaaaaa	aaaaaaagaa	agaaaagaa	8880
aaaaatgctg	ccaattaaac	tatgatttgc	cgctgggtgt	aagatatact	ctgattttaa	8940
agatgttaca	atgcgaaaac	aaacaactgc	gtgtgagagt	cagtgaatg	agcaagatga	9000
atgggtaaga	tggatccggc	tgttttcttt	catttgactg	ttagtctttg	atttcagaac	9060
tgtagaagat	ttgaaaaata	atgaaagcca	atggaaagat	tccccactgg	caactagaca	9120
ccgcgaaatg	ctgaagcgct	gtaaaactca	gcttaagggt	tgtatagcta	agtggaataa	9180
ttatagacca	gcctcatagt	gataattttc	ccaacagaat	atatgccttg	agtgcagagt	9240
ttagtgtcct	cactttttct	ttgttattct	tttcccttcc	aataaaaatag	tatatattta	9300
aaactgttga	taccttactt	atatgtgtat	ataatgattt	cagtctcagg	acagaatatg	9360
gatagatatg	cttctgctgt	gattatgaat	tcttaatggg	ttttatgatt	ctcagtttaa	9420
catcacctcc	cttggccggg	cgcagtggct	cacacctgta	atcccagcac	tttgggaggc	9480
ctaggcgggc	ggatcacgag	gtcaggagat	ggagaccatc	ctggctaaca	cggtgaaacc	9540
ccgtctctac	taaaaataca	aaaaaaat	agccgggcgt	gatggcgggc	gcctgtagtc	9600
ccagctactc	aggaggctaa	ggcaggagaa	tggcatgaac	ccaggaggca	gagcttgacg	9660
tgagccaaga	tggcgccct	gcactccagc	ctgggcgaca	gagcgagact	ccgtctcaaa	9720
aaaaaaaaaga	caacaacaac	aaaaatcacc	tctccttccc	tgccttatgc	agggccctcc	9780
tcacctgctg	tctcccaccc	ctgcceccaa	cactcatcca	gtatatctag	ccatgcattt	9840
ccatgatatt	tgacaaagag	tatctgtggt	agtggaaaga	tctctttcct	ttgcccctca	9900
ttctttcttt	ttaattgaaa	ttgattcatc	acacaaaacc	taactataga	tgggaatatt	9960
cttgctggtg	agacatagct	aaaaacatat	gccagctgac	attgtacaaa	taaagcatag	10020
atagcaaatt	tatgcatttt	tcttctattc	atgttccagt	tataaacctg	agtgtagct	10080
ggatcatgcat	tctgttgaac	agtaggataa	tatgtggaaa	gtttacctga	catagctttc	10140
tagtaccagt	taagatttca	gttttattta	ctaatagact	agacttcttc	aagatgcaca	10200
attaacaagg	ggcccttacc	tggggctgtg	gcacccccct	aagcagtcga	cagatgtgtt	10260
tcaaggggat	ctataaaactg	cttaaatgtc	caggcatggt	ggctcacacc	agtaatccca	10320
gcactttgag	aggccgaggc	aggcagatca	cctgaggtca	ggagtccgag	accagcctgg	10380
ccaacatggt	gaaaccccg	ctctactaaa	aatacaaaaa	ttagctgggt	gtggtggcac	10440
acgactgaaa	tctctgccat	tccgggagact	gaggcaggag	aattgcttga	acctggtagg	10500
cagaggttgc	agtgaacca	gatcgcgcca	ctgcacttca	gcctgggcaa	cagagcaaga	10560
ctctgtctca	aaataaataa	ataagaaaaca	ttaaatgtat	acatacagtg	catccttagt	10620
gtgcattgcat	gtgtgtgttaa	ttctgtcaac	aggcctctag	gtaggaattc		10680

ggccagcatt	ttgcccagg	gcagctcgta	agaggcgaca	ctggaattca	gacactgatt	10740
gtttggcttt	ttcccactaa	ccaccctgac	acccaaaggg	cctccctgtc	gccaccctct	10800
cctcatcagg	ttatttactt	gtgactgttg	gaactcaaca	ttttgagctt	taactgtgtg	10860
ctagacctgg	tggtagctgg	tggtttgctt	gccacgcctt	tgtttttctc	aggaaaaagg	10920
tcttgagaca	caaccagcat	cttatagcta	gttaggagat	gaagctctag	aagctctgga	10980
acccaaatth	cccatctcct	ggccccagtc	cctgcccagt	ccccctgtag	ggacttagct	11040
actgactgat	ctttgggtgg	ggacatccct	gcttccacag	aaactggtac	ggtgcaaggc	11100
ctgtgctgat	gctggcctac	ttgacgagag	cttcctgaga	agatgtctga	atttttatgg	11160
ccttctcatt	cagctgctgc	tccgcatcct	ggaccccgca	tatcccagat	gagtgtgctt	11220
cttctctgtt	cccttgctcc	tccttggtcg	ggctctgttg	tctttattgt	ccttcaaagt	11280
tgataactaa	aaacaaaacc	ctttctttat	caagaattca	cttctctgca	aggcgagtg	11340
gttcacgcct	gtaatcccag	cactttgggg	gaggctgagg	cagatggata	acttgaggtc	11400
aggagtcca	gaccagcctg	gccaacatgg	cgaaccctg	tctctactaa	aaatacaaaa	11460
attagccggg	cttggtggca	gatgcctgca	gtcatagcta	ctcaggaggc	tgaggcatga	11520
gaatcgthtt	aaacccgggag	gaggaggttg	cattgagccg	agatcatgct	actgactctc	11580
agcctggggc	acagagcgag	actctgtccc	cacccaaaaa	aaaagataat	tcacttctca	11640
gtttccagat	tgcatthata	tagattatgt	agttatattg	atagggtgtt	tccctgtaat	11700
tagttacaat	aataggcaaa	tgtcaacacc	tgttatttta	atthtgacaa	gttttcttta	11760
aaatttgcta	taaagtcttt	gattgataga	aagagaaatc	tataaattgg	aagccaaaag	11820
ctggagataa	tattaggccc	tcctaagcac	tgggtccagg	aataccacc	taattcagag	11880
agttagctaa	gaacattgtt	gatcactttg	tcatacaactg	gtcatctcct	ccaggcaaac	11940
catttttgtt	ttattttatt	ttattattat	tttactgtta	tgaagtctct	ggttcaactga	12000
tgttgggtgag	attggcccaa	gaccctgtaa	ggcgtggaaa	atattattta	aaatatgtgt	12060
gtaggccggg	tgcggtggct	cacgcctata	atcccagcac	tttgggaggc	caggccgggt	12120
ggatcacatg	gtcaggagat	cgagaccatc	tttgctacac	ggtgaaaccc	cgtctctact	12180
aaaaatacaa	aaaatagctg	gcgctgtggc	gggtgcctgt	agtcccagct	actcgggagg	12240
ctgaggcagg	agaatggcgt	gaacctggga	ggcggagctt	ccggtgagcg	gagatcacgt	12300
ctctgcactc	cagcctgggt	gacgagcaag	actccatctc	aaaaaaaaaa	aaaaatgtgt	12360
gtagctctgt	tgthttcgtt	tgagttgcac	aaaatgacca	aataggacct	ttttatttcc	12420
ttcccatttt	acttattgca	ttaaccttag	caagaagtca	agaaggctgg	gcgtgggtggc	12480
tcacgtctgt	aatcccagta	ctttggaagg	ctgaggcagg	cggatcactt	gaggtcaggga	12540
gttcgagacc	atcctggcca	acgtggtgaa	acaccgtctc	tactaaaaat	acaaaaatta	12600
gccagggtgtg	gtggtggggc	cctgtaatcc	cagctactcg	ggaggctgag	gcacaagaat	12660
tgcttgaacc	caggaggcag	aggttgcagt	gagccgagat	cacgccactg	tactccaaggc	12720
tggttgacag	gttgagactc	tgtctcaaaa	aaaaaaaaaa	aatcaagaaa	agggccagggt	12780
gtggtggctc	acacctgtaa	tcccagcact	ttgggaggcc	aagatgggtg	gatcacttga	12840
ggtcaggagt	tcgagaccag	cctggccaac	atggtgaaac	cctgtctcta	ttgaaaatac	12900
aaaaattagc	cagggtatgg	ggcacgtgcc	tgtaatctca	gctattcggtg	aggctgagac	12960
atgataatcg	attgaactgg	ggagggtggg	gttgcagtga	gccaagattg	caccactgca	13020
ctccagcctg	ggtgacagag	tgagactcca	tctcagggga	gaaaaaaaag	aaatcaagaa	13080
aaggaaaaca	tttcacacat	acccttgcac	atgcactgtc	ttcattattc	cctgttcatt	13140
tctggttgta	gtttctttgc	ctacataatt	attacatagt	attacagaat	gattttcttc	13200
cccaaattgaa	atacttatcc	gatggtaatg	taatactcct	tgtagtttga	tgtaccataa	13260
tttcatttta	taaattgtcc	tttttttctc	tttgacagta	taacactgcc	tttaaatcca	13320
gatgtcccca	aggtatttgc	agcgttgcc	gagttttatg	tagaagatgt	tcgagaattt	13380
ttatttttta	ttgtacagta	agtgccctta	atattttaca	tagttcta	atgtttttat	13440
gcataatagt	ataatattct	gagctatgtt	gcaaacctcc	atthcatgcc	tgaaatttga	13500
tgtaactgtt	ttactgaat	gctgcctaga	gactggaaaa	aataaatcca	actgtggcat	13560
cagtccaatt	ccaataatat	ctcaaagaca	gaggcaggat	taacagtgca	gataatgtat	13620
tccttgaaaa	ttgagttgaa	tttctaatag	ttaaatatgt	gtttctgagc	aacagaagga	13680
ggaaacagtt	tataaatgtc	tgaatgaaca	tcccaaaacc	agaaatatcc	acatctatat	13740
tttgactacta	aatttgtctc	aattgtaaaa	ttgggaatg	cttaccagaa	aatggtttga	13800
atthctaact	ggtattgtag	ggthtttaatt	tttttttcaa	atccttattt	ggtttatcaa	13860
attaacattt	tatttctaaa	acattacagg	ttagaagaat	tacaatttca	atccctgggc	13920
accatgatag	cacctatgac	tagctgaggg	agtggtatgt	gaagtctatt	gtgaaaagta	13980
aaagtcatgc	tgggcactgt	ggctcatgct	tgtagtccca	gacatgcagg	aggattgctt	14040
gagcctagtt	caagaccagt	ctgggcaatg	cagcaagtct	gcactctctt	aaaaataaaa	14100
taaataaata	gtatagggtcc	ccagtcacag	aatacaaat	gtgaaagttt	tgtaacaaac	14160

aacaggaaaa	aaacaaaatt	agtataaatg	attttaaaaat	aagggccaaa	agtaaatgga	14220
gcaagttaat	attgctgtca	taaaagctgc	ctttaaaaaa	aagcccaaat	caaggcagag	14280
gttgcaatga	gcagagatca	tgccactaca	ctccaacctg	ggcaacatac	acaaaaaac	14340
ccaaatcatt	ggtgacacgt	gattttgatt	ggtatgaaat	tttaaaagt	actcaaaaac	14400
gtggtttatt	tgttgaaaaa	ccaaccttgg	aatttaagca	actcaagtca	cattttaaaa	14460
tttgttctat	gcacagtgat	acaaaagaca	cctatttgaa	aaatttcatt	tattctcatt	14520
ttcagcagag	attaaaaaaa	aactatcaaa	atttttatgt	tttggtagtg	atgatctttt	14580
gtgaagttta	tctgatttga	tcataggttt	tgtttatagt	taatataaca	tgctacagcc	14640
agtaaccatg	tttggtttta	aatctgtctt	gttacagtgt	gaatagtcac	tgtaggctgg	14700
gtgcaatggc	tcatgcctgt	aatcccagca	ctttgggagg	ccaagggtgg	caaatcacga	14760
ggtcaaaaaga	tcaagaccat	cctggccaac	atggtgaaac	cccatctcta	ctaaaaatac	14820
aaaagttagc	tgggcatggt	ggcaggccac	tgtagtccca	gctactcagg	aggctgaggc	14880
aggagaatcg	cttgaaactt	ggaggcggag	gtttcagtga	gccgagattg	tgccactgca	14940
ctccagcctg	ggcaacacag	cgaggctcca	tctcaagaaa	aaaaaaaaaa	aataggctgg	15000
gcgcagtggt	tcatgcctgt	aatcccacca	ttttgggagg	tcgaggcggt	cggtcacga	15060
ggtcaggaga	tcgagaccat	cctggctaac	atggtgaaac	cccatctcta	ctaaaaatac	15120
aaaaaaaaatt	agccgggcat	ggtggcaggt	gcctgtagtc	ccagctactc	gggaggctga	15180
ggcaggagaa	tggcgtagac	ctgggaggcg	gagcttgtag	tgagccgaga	tcgcgccact	15240
gcactccagc	ctgggcgaca	gagcgagact	ctgtctcaaa	aaaaaaaaaa	agtcactgta	15300
aactgaatga	gttcaagggc	actcccaaac	ctacttatcc	tgccctcccc	tcctcactta	15360
ctgacaccag	ccttcaccca	agatgagttt	ctcagcagtt	tctcagcggt	ctctttcttg	15420
ctcttcttgc	ctctgttcag	atactctccc	caggcgcttt	atgagccctg	tactcaggat	15480
attgtgatgt	tccttgattg	gatgttggc	aaccagaact	acatccgaaa	cccatatttg	15540
gtggccaaac	tggtagaagt	catgtttatg	accaaccttg	ctgttcagcc	acgaaccag	15600
aagttttttg	aaatgattga	gaaccatcct	ctctccacca	agttgttggt	accttccttg	15660
atgaagtttt	atacaggtag	gttgctggaa	cacagtgtag	cacatggcag	gccaaacttag	15720
gtaagggtcat	ctaaaagctag	tggacgacgt	tgtctaaagc	ctgttaccta	atatacctgct	15780
actgtgtgtg	atagcttact	aacctgtggc	ctgcagagga	tgtacttttg	gttctctctg	15840
ccctgagtag	ttaggaatag	gacaaccatt	ccacctactg	gtctctgatg	attcagcagg	15900
aactactgaa	agtcagatga	ttggcaccga	gaaccagggt	atcaagagca	caagttggta	15960
gtgttatctg	aatggaatta	tctggttcat	tttacctttg	aacttacagc	atttgttttt	16020
taacactatc	ctataaccca	ctttccaaag	tgtgggtgaa	acagggagct	tgtaaaaaat	16080
gcatattctt	ggtccgggtg	cgggtggctca	tgcctgtaat	cccagcactt	tgggaggccg	16140
aggcggggcg	atcacaaagg	caggagttca	agaccagcct	ggccagtagt	gtgaaacccc	16200
atctctacta	aaaatagaaa	aaaaaattaa	attagccggg	catggttgca	ggtgcctgta	16260
gtcccagggc	ggttgaggga	ggagaattgc	ttgaaccggg	gaggcagaag	ttgcagttag	16320
ccgagatccc	gccactgtat	tccagcctgg	gcaagagaac	aagactccgt	ctcaataaat	16380
aataataata	ataataataa	taataataat	aataccactt	ttcacctgtc	aaatttattt	16440
cttaagttga	aaataacctg	tacaaacatg	gttgtggaga	agtaagctaa	cctgcaaaaa	16500
aacctgtctta	atctacccta	tagccagtgt	gcagatttag	tgctatgaaa	ctctcatgag	16560
aatgcaaat	taaagccttt	ctgaaaggca	gttttagcagc	ccacaccaag	agccttaaaa	16620
atgcttttat	cggggccagg	tgcggtggct	catacctgta	atcccagcac	tttgggaggc	16680
cgaggcgggt	ggatcacctg	agatcaggaa	tttgtgacca	gcctggccaa	catggagaaa	16740
ccccgtctct	actaaaaata	caaaaattag	ctgggtgtgg	cgggcggcgc	ctgtcatccc	16800
agctactcag	gagggcgagg	cacgagaatc	gagtgaaact	aggaggcaga	ggttgcatgt	16860
aactgagatc	acaccagtgt	gctccagcct	aggagaaagg	gcaagactcc	gtctcaaaaa	16920
agaaaaaaaa	aaagcactgg	gataacaaat	agtaggtgca	ggaagttagc	atcttctatc	16980
cctcagctctg	gggacccaag	ggaagagcct	ggggatctca	gaaccagct	gccctgatga	17040
gggcttggtg	ggagctagga	cccagtcctc	tgtggaaggc	ccttggccag	taggtgctgg	17100
tgtctctctc	gggggttgtg	cacggttgct	agctctgggg	gtacgagaca	aagctgaaaa	17160
ttggaaccaa	ctgctactgc	tgacagtaag	tgaagggtcc	taagtccctt	gtttctcctt	17220
cagttttcca	gttctcctgc	agcacccttc	attggcaacc	ctagagaggg	cgggctgcca	17280
aaggaaagat	tctgcagtgc	cagccccaga	atcaciaaagc	caactacaaa	gagtgcattg	17340
gggctgggca	cggtgactcc	agctaataat	cctagcactt	taggaggcca	agggtggagg	17400
attgttttag	cctaagaggt	ggagaccagc	ctgggcaaca	tggcgagacc	ccatctctac	17460
gaaaaattta	aaaattagat	gcctgttgct	ccagctacta	aggaggcaga	ggtgggagga	17520
aggcttgagc	ccagggttc	aaggctgcag	tgtgtctgct	tcttgctgct	gcgttcagc	17580
ctgtgaaaca	aagcaagacc	ctgttctaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaagggtg	17640

aaaagactgg	gtttcggcca	ggcacagtag	cttacacttg	taatcccagc	actttgggag	17700
gccaaggcag	tggatcacct	gaggtcagga	gttcgagact	agcctgacca	aaatggtgaa	17760
tcctagtctc	tactaaaagt	aaaaggccgg	gcgtgggtggc	tcacgcctgt	aatcccagca	17820
ttttggaaga	ctgaggtggg	tggatcacia	ggtcaagaga	tcgagatgag	cctcgccaac	17880
atggtgaaac	cccgtctcta	ctaaaaatac	aaaaattagg	cctggcacag	tggctcacgc	17940
tgtaatccca	gcactttggg	aggctgaggt	gggccaatca	cctgaggtcg	ggagttcaaa	18000
accagcctga	ccaacatggt	gaaaccctgt	ctctactaaa	aatacaaaaat	tagcctggca	18060
tgggtggcaca	lgcctgtaat	cccagctact	tgggaggctg	aggcaggaga	atcacttgaa	18120
cccgcgaggc	agaggttacg	gtgagccaag	atcgcgccat	tgtaatccag	cctgggcaac	18180
aagagcaaaa	ctccgtctca	aaaacaaaaa	ttagctggac	atggtggcat	gtgcctgtag	18240
tcccagctac	tcgggaggct	gaggcaggag	aatctcttga	acccgggagg	cagaggttgc	18300
aatgagccaa	gatcgcgcta	ctgcacttca	gcctgggtgac	agagcaagac	ttcatctcaa	18360
aaacaaaaca	aaaaacaaaa	caaaacaaaa	ttagccgggt	gacgcatgcg	tgtaatccca	18420
gcaacttgag	aagctgaggc	aggagaatag	cctgaacccg	ggaggtggag	gttgtagtta	18480
gccgagatct	aaaaaaattt	taaaaaaaaa	gagtggtattt	ggagctacga	gacaacagct	18540
gaatagctat	actctgacat	aagaatttaa	tttcttgaaa	tttattcaat	ggaaaataat	18600
acgaatgttt	gtaagtgatg	ttctccacag	cattatttat	aaagcagtgc	agtgaataata	18660
ataaaaacaa	ctggccgggg	tcagtgactc	acgcctgtaa	tcccagcact	ttgggaggct	18720
gaggcaggag	gatcacctga	ggtcaggagt	tggaggctta	gtctggccaa	aatggtgaaa	18780
ccccgtctct	actaaaaata	caaaaaaatt	tagctgggcg	tagtgggtgca	cacctatagt	18840
cccagcttct	ctggagtgta	aggcagatga	atcacttgaa	tcagggaggc	agaggttgca	18900
gtgagccaag	atcgtgccat	tgactccag	cctgggtctac	aagagcaaat	ctccatctca	18960
aaaaaaaaaa	aaaggaatgt	aggggaaggac	atataccaaa	atagtaacag	cgcatttggtt	19020
atTTTTgaat	ggtagcatta	taaatagttt	ttatttttat	tttattatct	gaacttctta	19080
atTTTTctac	agtaaacaatg	tattgttagt	agtaaagaca	aaacaatttt	agttaaattt	19140
atTTTTgtagt	cagtgttctg	ggcctgtcac	tgtggcttca	ggagagagag	agagagagag	19200
agtgtgtgtg	tgtgtgtgtg	tgtgtgtttg	tgtatttgtg	tttacacaac	agaactgggc	19260
ctgttgcccta	taagacgagt	gctgggccta	gtggagtcct	gctgggaatg	ttccagaagg	19320
aattgggtgg	gggtgtgtct	ctctttctct	tttgccatgt	gtgccctctg	gcctggacca	19380
cctcttcagt	catagatgga	tgacatctgt	actaataata	gccaccactt	attgaatgct	19440
tactaatcct	ttcacttaat	ccccacggca	gtcctaagaa	tagtactata	aatacatcca	19500
ctttacaaat	gaggaaaactg	aagcttaaaa	gggtcaagaa	gcttgctgaa	ggtcagtggc	19560
tagcaagtgg	cagcaacctc	gcagatggcc	tttagcacag	gtccccctgg	ctactgtgct	19620
ggtcttccta	cagctactaa	gggaccggtg	ttagggctacc	cctgagggag	gcatcacaga	19680
catagtcccc	agtgtctcat	acctccatgt	gaagacctgg	ctgattaggt	cctgggtccct	19740
gagcagatgg	gacctcaga	tataaattaa	aagttgccac	acacaagatc	agtatgtgga	19800
acaagctcct	cttaacacca	cagagatagt	attctagctt	agaaaatgct	caagttaggc	19860
tgggcgtggg	ggctcacgcc	tgtaatccta	gcactttggg	agtccgagac	aggtgaatca	19920
cttgaggcca	ggagtttgag	accagcctgg	ccaactggc	gaaaccctgt	ctctactaaa	19980
aatacaaaaag	attatccggg	tgtgggtgtg	ggggcctgta	atgccagcta	cctgggaggc	20040
tgaggctggg	gaattgcttg	aaccgggacc	tgggagggtg	aggtcgagct	gagccaagat	20100
cttgccactg	tactccagcc	tgggctacag	agtgagactc	catctcaaaa	aaaaaaaaaa	20160
agaaagaagg	cagcaagaat	acctgggggg	aggagggaga	ggttcaacac	aagtctagtc	20220
cacctacggc	cttctagaac	aaggacctgg	gaattagaac	ttgggctggg	atgactttga	20280
gggaacagta	gaagtgaata	agaagaaaaa	aaaactggtg	ggagaaatgt	atattgtttt	20340
gttttcatttt	cttttctttt	tttttttttt	ttttgagcta	gggtcttgct	ctgtcaccca	20400
cgctagagtg	tagtgggtaca	attacagcac	catgcactct	tgacctcccg	ggctcaagtg	20460
atcctcctac	ctcagcctcc	cctgtagctg	ggactgcagg	catgtgccac	cacaccagc	20520
taatttttgt	ggtttttgtg	gagacggggt	ttcacgatgt	tcaccaggct	ggtctcaaac	20580
tccctgagctc	aagtgatctg	cccacccggg	cctcctgaag	tgctggaaat	acagatgcgg	20640
ggccctgctg	agatacatat	tgctacataa	ttaaattaa	ttacttagt	ctctactata	20700
ttcagaattg	ggtgcagata	ttggggcatt	ttagatgata	tgaggcggtg	ggttggtcct	20760
cctgtatctt	cctcttgtag	gctatcctta	tgtcaacact	ccacacttta	gctcatgctt	20820
ttatacaatt	aataaatgac	atTTtagtta	ttttaaggaa	aggttactta	atgaatatac	20880
ataagtactt	tcggatctta	gtatgatagg	tgttaattat	cttattttat	ttttaaatag	20940
ctgtttcctt	ttttgggtcac	acacaaaaaa	atgtgttctt	tggaaaaatac	agaaaaatc	21000
aaagacaagg	tattagtggct	cacacctgta	atctcagtag	tttgggaagg	cgatgtaggga	21060
ggatcgcttg	aggcagggaat	ttgaaaccag	cctaggcaac	atagtggagac	cccatctgta	21120

aaaaaattaa	aagtgaaaaa	aaaaatTTTT	gagacagagt	cttgctttgt	cgcccaggct	21180
ggagtgcagt	ggcatgatct	tggctcactg	caacctctgt	atctggattc	aagcaattct	21240
cctgcttcag	cctcctgagt	agctggaatt	atgggcacac	accaccatgc	cctgctagtt	21300
tttgtatttt	tattaatagt	agaggcgggg	ttttgctatg	ttggccaggc	tggctctgaa	21360
ctcctggcct	caagtgatct	gcctgcctcg	gcctcccaaa	gtgctgggat	tataggcgag	21420
agccaccacg	ctcagccata	aaaaataagc	cacgcgtggt	ggatacacct	ccagtcccag	21480
ctacttggga	tgctgaggtg	ggaggatcac	ttgagcccga	gaggttgagg	ctgcagtgag	21540
ccattattca	caccactgca	ctttaccctg	ggtgacaggg	caagaccctg	tctccaaaaa	21600
aataataata	aaatagttgg	gcacggtggc	tcacacctgt	aatcccagca	ctttgggagg	21660
ccaaggtggg	tggatcatga	ggccaagaga	tcgagacaat	cctggccaat	atggtgaaac	21720
cccatcttta	ctaaaaatac	aaaaattagc	agggcgtggt	ggcgcatgtc	tatagtccca	21780
gctactaggg	aggctgaggc	aggagaattg	cttgaacccc	gaggcagagg	ttgcagtgag	21840
ctgagatcgt	gctactgcac	tccagcctgg	cgacagagcg	ggactctgtc	tcaaaaaata	21900
taataataat	aataaaaattt	gtcatgaatt	ctgaaatttc	tcatgcctaa	gcttttgcca	21960
tttggacaaa	caagtttgat	ttttatccct	ctttaataga	tttagggatg	atagacacat	22020
tgggtgtttt	tcaacaccaa	aaatgggtcaa	tagatagaca	catttagtaa	atacatggcc	22080
ctcaataaaaa	ttaaacctaa	ctttttatcc	gctgaagtat	gtccatttga	ggtgccatag	22140
aattttctgta	aattaataac	ttaaaattag	gtgggggggag	tatgataatt	cagcttttgg	22200
tcattggtaa	gttgatgttg	tcctaattgat	gggagttttc	ctagccccgt	tcctttaggt	22260
gttggtgtcat	tgtcaaatct	tcattgtgaa	acttttgtct	ttaaaagcag	cttataattt	22320
ctgtcgtgcc	ctacatgcaa	aagaagtgca	aaatttcacc	agctctctga	ttttgcagggt	22380
ttacattcac	tcagtatcat	tgttggggca	ataactggat	ttggaaagca	agaaaaatac	22440
tatccctcag	tacctttgtc	tttcttcttt	agatgttgag	cataccggag	ccaccagtga	22500
gttttatgac	aagttcacia	ttcgctatca	tattagcacc	atttttaaaa	gcctttggca	22560
aaacatagct	caccatggca	cctttatgga	ggagttcaag	tgagtatggg	gcccctcggt	22620
tcacaacttg	ctttcttgca	aatcgaggt	aggattgcag	cttaaaagca	tgacacagctg	22680
ggttcttgtt	gactgtttgc	ttggtctcag	actcctttga	gtttaccaca	agatgccact	22740
aaatgtgggc	aggatttttt	aaatggcttt	acttgcaaga	tattgctgaa	ttttgatttt	22800
gtcaagatac	tttgggggtg	gtacacaagc	gaagattgta	tagggcaggg	cgtggtggct	22860
cacgcctgta	atcccagcac	tttgggaggc	agaggcgggc	ggatcacttg	aggtcaggag	22920
ttcaaaacca	gcctggccaa	catggtgaaa	ccccatctct	attaaaaata	caaaacatta	22980
actgggtgtg	gtggcgcacc	gtctgttatc	ctagctactt	gggaagctga	ggcaggagaa	23040
tcacttgaac	ccgggaggca	gaatttgag	tgagccgaga	ttgtgccagt	gctctccagc	23100
ctgggtgaca	gacgcagact	cgcgtctcaa	aaaaaaaaaa	aaaaggaaaa	gaaaaagattc	23160
tataaatatg	ctgagatgat	gggttaagtg	tttttttggt	gttttctacg	atgacagtgt	23220
taaatgaagt	tgtcagaatg	agtgaatga	aatcttagtt	cctgaatgtt	ggaaggactt	23280
tagattttgc	aacaattagg	tcagagttgt	catttaaagt	atcattcttt	gtggttaaggc	23340
cctaaacctt	aattaaagac	ttttcatata	cctacctgaa	atctgagtga	ctgcttaaac	23400
ctggacatta	gtaattccat	ctaaattatc	tgtcagtgcc	taaaaacaaa	aggagatga	23460
agatgctgaa	ctcttgaatt	attcttcaaa	aattttatcc	catctaaggg	ccgggcgtgg	23520
tggtcatgac	ctgtaatccc	agcactttgg	gaggccgagc	agggcggatc	aggaggtcag	23580
gagatcgaga	ccatcctggc	taacatggtg	aaaccccgtc	tctactaaaa	ataccaaaaa	23640
attagccagg	catggtgggtg	ggcgctgtgg	cgggcgcctg	tagtccagc	tactcaggag	23700
gctgaggcag	gagaatggcg	tgaacctggg	aggcggagct	tgcatgagc	cgagatgggt	23760
ccactgcact	ccagcctggg	cgacagagtg	agactccgtc	tcaaataaat	aaataaataa	23820
ataaaaaattt	tatcccacct	acttggatct	tttgcaacct	atgttagatc	tttgatcaaa	23880
tctagctata	cttggttaacc	gaattactag	tcaataatat	acaaattacc	agtggaataa	23940
ctatttgcc	gatagatttc	tgtgaagcaa	actttttaac	tttttgtttc	cataaactgc	24000
tcttatggtc	agaatttgtgt	tccagctaaa	gcctggcacg	aggcaggccc	atggcttgggt	24060
ctgaatgggtg	ctgattggag	cgttgtcctt	gaacttgcca	tgttctctgag	atcgaggcct	24120
cctgcacttg	ttcacaggaa	cttctcttct	ccagcattgg	cttaccacct	cgtagtggca	24180
cagttgtaga	ccctgaagtg	tagcttcttt	ttttctctac	gaatctggca	tctccagagt	24240
ctaacagagg	taggccaagc	tatttcagtt	caccagcaag	ttctcattat	aacacgatct	24300
gcagaacagt	tccttagatt	ggaggcttcc	agttttaaag	taagttaata	tcccacttta	24360
tcaatattac	aggttccaat	ttttcttcca	tgcgtcagtc	tttgtgataa	ggaataacta	24420
tatcagttgt	tttcttatct	gttgatgtgt	gttaattatt	tgcattttct	tggatatattg	24480
gtgagtatat	cggtttttcc	tgttctagtc	tgaagaagt	gttttctctc	cttaaaaaaca	24540
ttgagggagt	gagctagggg	tgtgctggta	agcctgctct	gggaagcagg	gtgggggagt	24600

cagcatttgc	tgggttttcca	tgggtgtgtct	gtttcctctg	ttgcccatt	taaggtgcc	24660
ggggaatctg	gttataaaat	tctggaatat	ttagcacttg	actgtcatca	gccgtgcaag	24720
gtggctccaa	ataccactgg	aatgagctta	tcataaacia	tttaaaagaa	taacaaaatc	24780
caggccaggt	gtgggtggctc	atctctgtaa	tcccaacatt	ttgaggggct	gaggtgggag	24840
gaacgcttga	gcccaggagt	ttgagaccag	ccctggcaac	ataacaagtc	cctgtctcta	24900
caaaaaatc	aaaagctggg	cgtgggtggg	tgtgctgtga	gttccagcta	cttaggaggc	24960
tgaggcagga	agattgcttg	agccctggag	gtcgaggatg	cagtgaagctg	tgattgtgcc	25020
actgcattcc	aggctgggag	acagagtggg	accctgtctc	aaaaagaaac	aagattaaca	25080
taatctaaag	agaagcttgg	tggctcctga	attccatagt	gcctgacttg	tgccagggtg	25140
gccaggcttt	taggggtgaga	tagttgcagt	ctgggtggag	gtgcttgttc	cctgggattt	25200
gctgtggcat	tttgcttcag	ggagatgtat	gacctgtac	aatataattg	cctttccagc	25260
tccgggaagc	agtttgttgc	ctatataaac	atgttgataa	acgacacgac	gtttttgtct	25320
gatgaaagtc	tggagtctct	gaagcgaatc	catgaagtgc	aggaagagat	gaagaacaaa	25380
gaacagtggg	accagtgtgc	ccgggtgagg	acgtggtcca	gaggcttgga	cagctttgca	25440
ggccatctgc	ctccacacac	gggcagagct	gctttggggc	tgcatattgtg	ggtctgatga	25500
tatgcgactc	gacatgctgg	gattttcctt	ccatgaaatc	atattgcagg	attggaatag	25560
gaaaattctt	aaatacctta	tctgaaagct	agaaatgggt	tgagaagtct	ttgaaatgt	25620
acactgaaaa	ctttctctgc	ctttttaatt	ttaaagggct	tttttgagga	tgagctttta	25680
ttgtctgaat	atattaatat	tcatgaacat	aattaggaaa	gaaatctcta	gaattatgtc	25740
tgctggacaa	gaatttgatt	tgttcctatg	ggcttctcta	ggcaactgtg	tgaatcactc	25800
aggatcctgg	cggggtgttt	tttccctttc	agttgatctt	gggttttata	ttcagttatt	25860
aatagaaaa	aggcctggct	tgccaggttc	catggaaagc	acgtgccgtg	ccagtaccag	25920
tgctctttcc	tgacgtgcgt	agcagccact	gagatacttc	cttggctcgt	tatgaggccc	25980
ttgacagtgt	ctgggtgactt	cttagattgg	cttaggttta	ttgattctgt	tcttggaatt	26040
gtcaggctca	gaatcagaac	tgatttccat	aaggggttct	catgtcaaag	tggggactgc	26100
tttttcttca	cttttctttt	tttttttttt	tttgagacgg	agtttcactc	ttgtcgccca	26160
cgcaggagta	cagtgggtgcg	atctcttctc	actgcaatcc	ccgttctctc	ggttgaagcg	26220
attttctgtc	ctcagccttc	tgaatagctg	ggattacagg	cgcctgccac	cacacctggc	26280
tagtttttgt	attttgtttg	ttgttttttg	agacggagtc	ttgtcttttc	acccatgctg	26340
gagtgcagtg	gcacgatctc	agctcactgc	aatctttgcc	tcctgggtac	aagtgattct	26400
cctgcctcag	cctcccaagt	agttgggact	acaggcacct	gccactacgc	ctggcttatt	26460
ttttgtattt	ttagtagaga	tgggttttca	ccgtgttagc	caggatggtc	tcgatctcct	26520
gaccttgtga	tccgccttcc	tcggcctccc	aaagtgtctg	gattacaggc	gtgagccatt	26580
gcacccggac	aatttttgta	tttttagtag	tgacgggggt	tcaccatgtt	ggccaggcct	26640
gtcttggact	cctgacctca	ggtagtccat	ccgcctcagc	ctcccaaagt	gctgggacta	26700
caggcgtgag	tcaccgcgcc	cagacttttt	tttttttttt	ttctttttta	atttcaactt	26760
ttattttaga	ttcaggggat	gggttacatg	tgcagggttg	ttacatgggt	ataccgtgat	26820
gctgaggctt	tatgattcag	cctgtcaccc	agggagtggg	cataatacct	aataggtagt	26880
tttcaacctc	cactcctccc	tcactccctc	ccctttagtg	ccccagtgtc	tgttattccc	26940
gtctccgtcc	atgtgtacca	atgtttagct	ccattttata	cctgtctttc	ttcttatgta	27000
ttaaagttct	accatttctc	tgagtaaggt	cctatccaaa	tactccctca	ggtttgtctt	27060
cgccaatcag	catagctgaa	aattctcacc	tttctcctta	cttctgtaac	accactttta	27120
taccattcac	agtgtctggg	atgccagct	tatatattat	ttacttattt	gttttttatt	27180
attattaata	aataaagaca	gagtgttgat	ctgtcgcctt	ggctggagtg	cactggcagg	27240
atcatagcac	accacagcct	caacctcctg	gactcaagtg	atcctcctgc	ctcagccttt	27300
gtagatccaa	agagctggat	ctacaagcat	gtaccaccac	gcttggctaa	ttaaaaaaat	27360
tttttttata	gagacaaagt	ctcacatgct	tgcttcagca	gcacgtatac	taacattgga	27420
acaatgcaga	gaagattacc	atggccctcg	ctcgaggatg	acatgcaaat	tcataaagca	27480
ttccatcctt	taaaaaataa	tattaggcca	gggggtgggtg	ctcacgcctg	taatcccagc	27540
actttggaag	gccgaggcga	gtggatcaca	atgtcaagag	atcaagaaca	tcctggccaa	27600
catgggtgaa	ccccgtctct	actaaaaata	caaaaattag	ctgggtgtgg	tggcacgcgg	27660
ctgtagtcct	agcctattga	gaggctgagg	caggataaatt	gcttgaacct	gggagggcga	27720
gggtgcagtg	agccaagatc	gcaccactgc	actccagcct	gggcgacaga	gtgagactcc	27780
gtctcaaata	aataaataaa	tattaaagag	agagagtctt	gctagttttc	ccaagctggg	27840
cttatatttt	atttacttac	tatttttatt	attaaattat	tttttatttt	attttatttt	27900
attttttgag	acagagtctc	actctgtcac	ccaggttgga	gtgcagtggc	gcaatcttgg	27960
ctcaatttat	gctgtctggg	attacaggcg	tgcaccacca	cgtccggcta	atttttgtat	28020
tttttagtaga	gatgggggtt	tgccacattg	gccaggctgg	tcttgaactc	ctggcctcaa	28080

gcaatccacc	cacctcagcc	tcccaaagt	cggggggttac	agacatgagc	caccatgccc	28140
agccttatta	ttatttttta	atagaaacag	agtcttgacc	gggcacagtg	gctcatgcct	28200
gtaatatcag	cactttggga	ggccgagggc	ggcagatcac	ctgaggccag	gagtttgagc	28260
cagcctggcc	aacatggtga	aaccagtggt	ctactaaaaa	tacaaaattt	agccaggcat	28320
ggtgacaggt	gcctgtaatc	ccagctatct	ggaaggctga	ggtgggagaa	tcaactgaac	28380
ccaggaggca	gaggttgagc	tgagctgata	ccatgccact	acatttcaca	tttcagcctg	28440
ggcaacagag	cgagactccg	tctcaaaaaa	gaaaaaaaaa	aagaaagaaa	gagtcctgct	28500
ctgtcaccce	ggctggagtg	caatgacaga	tcttagctca	ctacagccta	caacctcctg	28560
gcctcaagca	gtcctccccc	ctcagcctcc	caaaatgctg	ggattatagt	tgtgagccac	28620
catggctggc	cagcgtatat	tttagatggt	ggaatgcagg	tctatagcac	attctcgtat	28680
tcatagtcag	tacttaatag	catttgttta	tgagccaact	gaacaaataa	tattgatttt	28740
tctgtgttta	atggatgaaa	aaggcccaaa	taattcccac	aattgctatt	tcagaaataa	28800
tttttatttg	gctttgaagt	cactttctac	ctcccactgc	cctggctggt	cctgctcatc	28860
tccctgacgt	ctgagcttgg	tgagctccag	cactcagccc	ttaggcttca	atttctttcc	28920
cactcatgct	ctctaggtta	gtgtttctca	acgagggcac	tagttggaat	tttgagccta	28980
gtggaatttg	gtataataat	aactcatgat	gagaaacct	cccatatatt	gcaggacatt	29040
taggatctct	gtttcctggc	atttaagtgc	agggatgtac	cctcctaccc	ccagccttca	29100
ggcaacgaga	aacactgcca	cacataacct	gatgtccccc	ggtgaacatc	actgcttggt	29160
gagctcaggt	ataccaaggc	attaaatacc	tgtgttctaa	agactccaga	atatactcc	29220
ctggctcaga	tctgactgca	gacttgagca	ccaagtattt	gtctaatacag	tgtctcaaac	29280
tcaactgtgtc	caaaaacggaa	cccttgatgt	tgtccacatc	tccctgacctga	gtctgcccac	29340
tctcagtaaa	tggcgccctc	attctaccag	ctgctcaggg	tcgatgcttt	ggagtgtctc	29400
ttgatttctc	tgcgtctctc	agcaaatgcc	tctaagctct	gtcttaaaat	atatccatta	29460
tctgacctct	tctcagcacc	tccagaccgt	tggcatctct	tacctgggtt	attgcagtag	29520
cccactgctt	ggtcttcaac	ctccactctt	gagcatgtcc	atatcagggg	tgggtgtaaa	29580
catctcagtc	tgatcaacat	caccactcag	ctcagccatt	ttgggcttcc	cttatcactc	29640
agagccaaat	cctgtgggtga	gagcagccta	cagcagcgag	gaggacctgg	ccccacaatg	29700
tgtttctgct	ctcagctttg	gacagtctct	tctccactca	ctctacccca	gccagactca	29760
cctcctggcc	cttccactga	cacgtgaggg	cctttacacc	tgctcttccc	cctacctgga	29820
atgctcttcc	ctcagatttt	ccgactcctt	cagatatacc	ctccctcagg	gataccttcc	29880
ctgaccaccc	ttccagaat	agcattccct	gactcctgac	cctgcttcat	ttttcctcat	29940
cactgtcaga	cttactgtgt	gtctgtctgg	gtatttgttt	ctatgaagca	gatcctccct	30000
aacggaatct	aagctgcatg	agagctggga	gcctttttat	tctatctcca	gtgcccacag	30060
gctgtagaag	ggcctgttga	gacaccaggg	tacacattta	ggtagttcac	gcctggctgt	30120
tcttgtgtct	ttcctggctc	tgcctttctt	tcagtaggct	cattcttgac	cagggaacgg	30180
caggcccccc	agtatccctg	cagaatctcc	atcaagcaca	gactggagca	ctttcccaga	30240
gggcactcac	cgccagcctt	cagctctgcc	agctgtgttc	ctttcccac	aagaaaaggc	30300
ctctgaacag	atgtaagaat	tgaggctttt	cctgatgggt	ctgtgtttga	cccatttcag	30360
agcctgcagt	gcagtacctg	attgtatcca	tgagtcaaac	agctcttatt	atctcctccc	30420
cagcccatgg	cagagtgtga	ggaggaaagt	gcgccagagg	taagcgtgct	gacagtctctg	30480
tgggtgtgaca	gcctcacagt	ttggaaagac	aaaattttta	aagcttagta	gtccacaggc	30540
acttgtagag	gcagagaggc	agaccgata	ggcctcaata	cgggtggcaca	ctgcatctca	30600
tagttttaaa	ataatgaaga	ctggctgagc	acggtggctt	acacttgtaa	tcccagcact	30660
ttgggaggcc	taggtgggca	gatcagttga	ggtcaggagt	ttgagaccag	cctgatcaac	30720
atagtgaaac	cccactctca	ctaaaaat	aaaaatttag	ccaggcgcat	tggctcacgc	30780
ctgtaatccc	agctctttgg	gaggttgaa	tggtggatc	acctgaggtc	aggagtcca	30840
gaccagcctg	gccaacatgg	cgaaacccca	atctttacca	aaaatacaaa	aattagtcaa	30900
gcatgggtggc	acgcacgtgt	aatcccagct	actcaggagg	ctgaggcagg	agaatggctc	30960
gaaccgcggg	ggcagagatt	gcagtgagcc	aagatcgctc	cactgcactc	cagcctgggc	31020
aacagagtga	gaccctgtct	caaaaaaat	aaataaatca	cacacacaca	cacacacaca	31080
cacacacaaa	aaaaaaaaat	tagctgggca	tgggtgtcca	ctcctgtaat	cccagctact	31140
tgaggagctg	agacatgaga	atcacttgaa	cctggggaggc	ggaggttaca	gtgagccgag	31200
attgtgccac	tgcactctag	cctgggtgac	agaggaagac	tccatctcaa	aaaaaaataa	31260
caataataat	agagggccgg	gcacgggtggc	ttacgcctgt	aatcccaaca	cttcgggagg	31320
ccaaggcagg	ctgatcacct	gacgtcagga	gttcgagacc	agcctgacca	acatggagaa	31380
accccgctct	tactaaaaat	acagaattag	ccgggcatgg	tgacacatgc	ctgtagtccc	31440
agctactcgg	gatgctgagg	cagaagaatc	acttgaacct	gggaggcgga	ggttccggtg	31500
agccgagatc	gcgccattgc	actccagcct	gggcaacaag	cgaaactccg	tctcaaaaaa	31560

taataataat	aataataata	ataataataa	tgactaagta	aaagttatta	ttaagggaaa	31620
taaactaccc	tttcttagtg	ccatgatgtg	tgtcagatac	tatgttccat	tatcttattt	31680
catcctgaat	agaagttgat	ggtgactttt	tttttttttt	ttttttttga	gacggagtct	31740
cactctgtca	ctaggctgga	gtacagtggc	gcgatctcag	ctcactgcag	cctcagcctt	31800
ctgggttcaa	gcagttctcc	tgccctcagc	tcccaagtag	ctgggactac	agccacgcac	31860
caccaccccc	agctaatttt	tgtattttta	gtagcgacgg	ggtttcacca	tgttgccag	31920
ggtggtctcg	atctcgacct	cgtgattcgc	ccaccttggc	ttcgaaagt	gctgggatta	31980
cacgcgtgag	ccaccacgcc	cggcagatgg	tgacttcttt	tatcattgag	gaagcagagt	32040
taaataaggc	accaacatca	cctggctgga	agtctcaaag	agctccgatg	ctgaaaggat	32100
gaaacttcag	ttatctggga	catgtggcag	gcggttctgt	cattccctaa	gcatgttggg	32160
tttatcacgc	actttccagt	tatgtgcttg	gcgctttgct	gagctgatga	ccaggaccga	32220
gccttactca	gcgtctgttc	gatgtgtcct	aggatcagca	gcaggctcgt	cagtctcagc	32280
ttgctcagga	tgagcgtgtg	tcccgccttt	acctcgccct	ggccaccgaa	accgtggaca	32340
tggtccacat	cctcacgaag	caggtccaga	agcccttcct	cagaccgggtg	agtagaaacc	32400
cggggctctg	tttggtgggt	tggactccac	attcagactc	tctcacttat	aacttttagca	32460
ggtgttgaag	ttctggaaat	tttaggatca	cagtcaccaa	taagtgaat	tctgtgactg	32520
attttggtcc	cagttatgct	aattgatacc	agactctggt	gatggactga	agagcagatg	32580
tctgatgtca	ccacatagtc	tacagccact	tccaaatgcc	ttactgcact	ttgtgcttag	32640
acagtacatt	ggattattca	tgttgatgtc	atgacatatt	tttaccatta	ttgattccta	32700
tattttactt	atagaaaaag	cataaggtgc	cgggtgcggt	ggctcacgcc	tgtaatccca	32760
gcactttggg	agcccaaggc	gggcagatca	cgaggtcagg	agatggagac	catcctggct	32820
aacacagtga	aaccccatct	ctactaaaag	tacaaaaaat	tagctgggcg	tgggtgtggg	32880
cacctgtagt	cccagctact	caggaggctg	aggcaggaga	atggcgtgaa	cccgggaggc	32940
agagctggca	gtgagccgag	atggtgccac	tgcactccag	cctgggcgac	agagtgaagc	33000
tccatctcaa	aaaaaaaaaa	aaaagaagaa	gaaaaagcat	aaggtaacag	ctgttgacaa	33060
tggaaggata	ttaagtagaa	taattgagac	cgtgtaaaat	ctttggctct	cttagctgta	33120
cctttgttac	actcaggaag	ccaaaggtta	atgggagccg	gccatcacta	gggtttatgg	33180
tggattgcaa	atagtcagaa	tgtttgtctt	caactagtaa	gacctgggtc	ctattttcaa	33240
aattgaaact	gagcagcatc	actgaagatt	tctgccctgc	ttcagccacc	cccaccacaa	33300
agttgaaaag	ttttatggtg	tggccaggac	aagggttagtg	aggaaggcaa	gacggggacc	33360
taagattcgg	tagccatttg	cctatgtgga	gacatgttta	ctttacaatg	gaatatgacg	33420
ttactgcata	tttcccctga	ttttctgtat	ttgctcttac	cttcgttatg	tgactctctg	33480
ttatgtgact	cctgtcatca	gcagaggcac	tattggcact	ccctggcctg	gggacaactc	33540
ttttccactc	ttttaacttt	ccacctcatg	tctcttcata	aacagatttc	agtgcagag	33600
ccatggaaca	cgaacaaaaa	cagctcagac	actggcctcc	cttaaaagtt	tgcaaagtgc	33660
aaggccatgg	agcatgaaac	aaaacagctc	actggccaga	cactggcctc	ccttcaagggt	33720
ttgcagaatt	ctgtgaaggc	cagatagtaa	atagttgatt	aattcccttg	taacaaggtc	33780
aacacccacc	tattttgtac	acttgttggg	aagactaagc	gaaaaacacac	atagaagtac	33840
ctggcataag	gccaaagcag	gtggctcatg	ctgtaatcc	cagcactttg	agaggccaag	33900
aagggtggat	cacctgaggt	caggagtctc	agaccagcct	ggccaacatg	gcgaaacccc	33960
gtctctacta	aaaatacaaa	aattagccag	gcgtggtagt	gcatgcctgt	aatcccagct	34020
acttggaag	ctgtggcagg	agaatcactt	gaacccaaaa	ggcagagggtc	gcagtgaacc	34080
gagatcacgc	cactccaacc	tgggtaacag	agcaagactc	ttctcaaaaa	taaataaata	34140
aatttatttt	aaggcctgct	catagacctg	agccatctgt	acactgtagc	cctgttcttt	34200
tggcoccagc	ctgtgcctgt	gcctgctgtg	atgttttcat	ttccttttgc	acactattta	34260
ctatctggcc	tttgagaca	aagtgtaaag	gcatttcatt	ttgcaaacct	ttaaggtttg	34320
cattttcacc	ttctttactg	actagctcag	atctctccta	cttcaaacag	aatgaccaac	34380
tctgtcctgt	tatgactctt	ttatttcaca	gcttctcaac	agtgaataac	aggagtactc	34440
tgtgcaaaaag	caaattcttg	aaaagctaag	tatatgttga	atltgtataa	atccagttat	34500
tacattttcat	gaaaaacctg	tgacttaaa	gaatgctttc	gtgactccct	tttatggcca	34560
gtgtttaatg	ctctctaagc	cacatcttcc	tgtttcaggt	ttgcttaaaa	ccatgtatgc	34620
ccaaccgtag	tgggtactga	gtcaccttgt	gagattacag	catagattat	tactattttc	34680
cagggtgtttc	atttaagttt	actctgtctc	attgactaga	tttaaaacta	ttcaaggcat	34740
aactttttatc	ttctttcctt	gcattacttt	gttattttgt	tctgataagt	acataagaat	34800
gacacagact	gaactgccag	gggcttttaa	catttatggg	gaaaaaagtt	tatgaaatac	34860
tggctggaag	agctgactca	aaactttttt	tgtctcagata	atggtaagat	ttgtataatt	34920
ttctctcttt	tacttgtttc	tcaatgaatt	tggagtata	ctttttttta	ttaaaagcat	34980
aaatgtaaag	aaaagtttgg	cttcttttgg	tatttataaa	taaatatattc	atcagcctgc	35040

aacattccat	taagtattag	aattatcaga	tcagaaatgg	ggagtaaagt	tgaaatataa	35100
tggtgtcttt	cttcagctta	tgatacacag	cacctgtaag	gattctttga	agattaatcc	35160
aaccaattcc	tgttcctcca	ctgaaatggg	agtttttgg	ccttttccact	tgctcaaca	35220
gcatgaattg	tcctattatc	ctgtgatttc	ctaggagctt	ggaccccgat	tggctgcaat	35280
gctgaacttt	aatcttcagc	aactttgtgg	ccccaagtgc	cgtgacctga	aagttgaaaa	35340
ccctgagaaa	tacggctttg	aaccaaagaa	gctgttggac	caactgacgg	atattttactt	35400
acagctggac	tgtgctcggt	tcgcgaaagc	cattgctgac	gaccaggtca	gtgagttgag	35460
ttgggtctctc	tgtgagttta	ctggcagatt	tggagataat	aaccacagtg	gccagggaac	35520
tcgtctgggtg	taaatgaaga	tgagtgggtt	gttttccctt	gagtgtgaag	agcagatttg	35580
ggctggggcgc	ggtggctcag	gcctgtaatc	ccaacattct	gggaggccaa	ggcaggggga	35640
ttgcttgagg	ccagactgca	gtgagccgtg	attgcaccac	cacactccag	aatgggtgag	35700
agagtggagat	cctgtctcaa	aaacacgggtg	gctcacgcct	gtaatcccaa	cactttggga	35760
ggctgaggcg	ggcagatcaa	gaggtcagga	gtttgagacc	agcctggcta	acatggtgaa	35820
accccatctc	tactaaagat	acaaaaaatt	acctcagtg	ggtgggtgat	gcctgtaatc	35880
acagctactc	gggaggctga	ggcaggagaa	tcgcttgaac	ccaggaggca	gaggtttcag	35940
tgagctgaga	ttgtgccact	gcactccagc	ctgggcaaca	gggtgagact	ctgtctcaaa	36000
ataaataaat	aagtaagtaa	gtaagtaaaa	aacaaaagta	aagagcaggt	ttggcgctct	36060
gagccctctc	cagttgagtt	cttaccctcat	ctttttaagg	gccttcttga	caaatccatt	36120
acattttctga	aaagagcccg	gtttctcaag	ggatcagaat	cttctttcct	agtctcctgc	36180
tagagtgtctg	ttatttttgg	ggttgtccag	attaaaaatc	ttgtgtgggt	ttctttacat	36240
tcttccctct	cctttattcc	gtgggtctcc	tgtgagcaga	tctgtctgtg	tgtgcttcat	36300
ttccacagcc	accgatttag	gctaagctgt	cctgcgtga	tcttctagtc	atcccataaa	36360
gggtcggccc	cctccatggg	ccgttctgcc	tcattttcaa	cgtcctcaca	gctaattgtt	36420
attaactgta	cacctcattt	caccactttt	tcgtatctcc	acccatttag	tcctcacaaa	36480
atcctttgag	gtaggttctg	taaagtcttt	gttttaaggt	gaggaaagag	gcacagagag	36540
gttaaatagc	ttgctcgagg	tcacagagtt	agtgtgggac	agaggcatga	tccatgtcca	36600
ggcagcctgg	ccttgaaccc	atatectcag	tctctctgct	gtccacttaa	aatgcccaca	36660
aagaacctatg	ctgtctctg	tgtctctgtc	tttgttcaca	ctacttatcc	aaatactatt	36720
catggctcaa	gttaatcatc	agtaggcatt	ctagaagggt	ctttaccat	atctcatcca	36780
aaggagtaat	attacaatag	aagcattgta	ggtacttttt	tttaatgaca	gctttattga	36840
gctataactc	acatatgtag	gtgctttctg	atgtagcagg	ggaagtgggtc	ttacaaaagg	36900
atgtgcagtg	aaaaaataca	tagtcatgtg	ctgtttctgt	cgatgctgga	ccacaaagac	36960
catgtggccc	catcatatta	taataccgta	ttttcactgt	accttttctg	tgtttagaat	37020
actcaccatt	gtgttacaac	tgccgacagg	attcagta	gtcccacact	gtacagtttt	37080
gtagcctagg	agcaataggc	tataccatag	agcctcgacg	tggtgtaggc	cacgccatct	37140
agggtttgtgt	aagtaaattc	tatgatgttt	acacagcaac	gaaattgcct	aacaagacat	37200
ttctcagagc	gacacatgac	tgtgtgtcta	aagcagtttt	atcatacaaa	gtagtggctc	37260
gtaagagggt	taggaaatth	tagttacttg	tagatgttaa	aatatatact	gctggccgag	37320
cgcgggtggct	catgcctgta	atcccagcac	tttgggaggg	cgaggcggtg	ggatcacaa	37380
gtcaggagat	cgcgaccatc	ctggctaaca	cggtgaaacc	ccgtctctac	taaaaaaaat	37440
acaaaaaaat	tagccggggc	tggtggcggg	cgcctgtagt	cccagctact	cgggaggctg	37500
aggcaggaga	atggcgtgaa	cccaggaggc	agagcttgca	gtgagcggag	atcgagccac	37560
tgcactccag	cctggggcgac	agagcaagac	tgtctcaaaa	aaaaaaaaaa	attatatata	37620
tatatacaca	cacacacaca	aacactgctt	tactagcccc	cgactatata	atactgcact	37680
gatttagaaa	cagaaagcaa	gtcatagcct	gcagtgaggg	aaagaaaagg	gaagcattta	37740
cccattgagg	tggggtccac	acctgactgt	agctggcgct	tccagcccag	ccagaggtcg	37800
gtgtggaaaag	ccccagggtc	cttccatcgt	tgcctgtagag	agacttggaa	gagctgttta	37860
gtgtgcgccc	tctccagggt	ggttgtgtctg	tggctgccac	atcacaggcg	cttaacgtaa	37920
cacacagaag	gtttcggtgt	gggtgggcac	agcacgccc	gtgaggtgat	gcaaagcaac	37980
tgggtgacaa	aggaatgctt	tgagcggcct	ttgtttgggtg	accaaccaca	cattgcattg	38040
cctgggtcatg	ccttagatta	tgggtgtggc	ctctggtggc	acctggcttg	ggtgttagac	38100
agcagtttct	ggcagagtga	cacacggggc	tccttgatg	tctaaatagt	cctgttcttc	38160
cagagtgggtg	aaacaaacac	acatgtgcca	gtgacacatg	gagagaaaag	catattttta	38220
gaagtgttgg	ggctggggcgc	agtggctgac	acctgtaatc	ccagcacttt	gggaggccaa	38280
gggtgggtgga	tcatgaggtc	aggagttcga	gaccagcctg	gccaagatga	tgaaacccca	38340
tctctactaa	aaatacaaaa	attagccggg	cacagtgga	ggcggctgta	attccagcta	38400
ctcggaggct	aggcagggag	aatagcttga	acccgggagg	cagaggttgc	agttagctga	38460
gatcgaccgc	ctgcattcca	gcctgggtga	cagagcaaga	ctccatatca	aaaaaaaaaa	38520

aaagaagaag	tattgggctg	gggtgcggtg	ctcacacctg	taatcccagc	actttgggga	38580
gccgagggcg	gcagatcacc	tgaggtcagg	agttttgagac	cagcctggct	aacatgggtga	38640
aaccctgttt	ctactaaaaa	tacaaaaaat	tagccgggca	tggtgggtgtg	cgctgtaat	38700
cccagctact	cgggaggctg	aggcaggaga	atcgcttgaa	cctgggaggt	ggaggttgca	38760
gtgagccgag	atcgtgccat	tgcactccag	cttgggcaac	aagagcgaaa	ctccgtctca	38820
aaaaaaaaaa	aaaaaaaaag	tgtttttgct	tcctttcaca	gtgtgggtgtg	tgtgctgatt	38880
gttgggtatt	ttctatttat	attggccata	agctgattag	gggcctgctt	acttgattgt	38940
tttagaagag	agctttgggtg	gggcaggggg	cggtaagtgc	agaaggatgg	atggttggca	39000
agcactgggg	aagagggtgt	aaaattgcat	tttcttcttt	ggaagcagca	gtatcttagt	39060
ttgctttggt	atgtcttagt	ttggtttggt	atgtcttggt	ttccgggaaa	gacaaaggaa	39120
agggaaaatg	acagctttgc	aggtaaaagaa	actgagaggc	ttctctccct	ctataccaag	39180
agtaggctga	agacccatgt	ccagaaggct	gacagaaagg	tgcttgggtg	aagagccact	39240
gagcttgatg	ctcaggaatc	tgagggcaga	gctccatgcc	agagaagtgg	gataccacat	39300
tggtcctggg	agccaagagg	accaggatag	ggagatgtta	aagtggccta	gactgtgtct	39360
ttatgggcag	acgccagttc	catggacaga	ctgcatactc	gtcgtccatg	aagcattgtc	39420
tgtaaacacc	attttccatt	aaaaaagaaa	aaaaattcag	cacctactta	gaaaaataaa	39480
aaaaatagcc	gggtgcagtg	gctcacgcct	gtaatcccag	cactttggga	ggccaaggcg	39540
ggcggatcac	aagggtcagga	gatcgagacc	gtcctgggta	acacggtgaa	accccatctc	39600
tactaaaaat	acaaaaaatt	agccaggcgt	gggtggcgggc	gcccgtagac	ccagctactc	39660
gggaggctga	ggcaggagaa	tggtcgtgaa	ctgggaggtg	gagcttgtag	tgagccgaga	39720
tcgcgccact	gcactccagc	ctgggcgcaca	gagcgagact	ccgtctcaaa	taataaataa	39780
aataaaataa	taaaaaagaa	aataaaaaaa	ataaaaaatcc	catcagtcac	acttccccca	39840
tgcagtcagt	ctttcctaag	taattgctcc	ctcctctaac	ctaccagaat	atgagctctg	39900
gtctcacaaa	tgtaatgctt	cattttcttg	ttattttttt	cttctttaat	gaggtaagat	39960
taatatataa	cgtagaagta	accattttaa	agtgtaccat	tttgtggcat	gtagtacagt	40020
cacagcgttg	cacagccacc	acctctacct	agttccacta	catgtatcac	cccaaaagga	40080
aaacccttaa	agcagtcgct	gtctagaccc	ccttgcccca	gccccctggc	accacaaatc	40140
tgctgtctct	cttttccctat	ttttggattt	acctattcac	ctctccggga	tatttcatat	40200
aaacgcactt	atacagtggt	taaccttcta	tgtctggcct	ccttcactta	gcatcatggt	40260
tcaaggttca	tttgtgttgt	agaatgtatc	agtatttcat	tcctttttta	ggctgaataa	40320
tatttccattg	tatggatata	ccaccatttg	tttatcctca	tccattgata	gacatttggg	40380
ttgtctccag	cctttggctc	ttgcaaatag	tgctgctatg	aacattttgtg	taaaagtatt	40440
taaacacctg	ttttcagtta	ctttgggtct	acacttggga	gtgggattgt	tggtcatgtg	40500
gtaattccat	gtttaacttt	ttgagggatg	ccagaatggt	ttctacagct	gccgccattt	40560
tgacattccc	actggcaatg	tataagggtt	aagtttccat	tccttttcat	tttttttctt	40620
tggttttagtt	tatatctctt	ccatcatgaa	gtttaaaaat	taaacatggt	aatttgtttt	40680
tgtttcttaa	atactcatcc	tagtgggagt	gacgtgggat	ttcattgcgg	ttttgatttg	40740
tatttcccta	atgtcaaata	ccattggaca	ccttttcatg	tgcttgcctg	ccatttttat	40800
attttcttgg	gagcaatgtc	tattcatggt	ctttgcccct	tttttaattg	ggttgtttgt	40860
gttttgggtg	ttgagttgga	agagttcttt	ttttcttttt	cttttttttt	tttttttttt	40920
gagatggagt	ctccctctgt	tgcccaggct	ggagtgcagt	ggtgcgatct	cagcctactg	40980
caacctccac	ctcccagatt	caagcaattc	tcttgccctc	gcctcccaaa	tagctgggac	41040
tacaggcggtg	caccatcacg	cctggctaata	tttttttgta	tttttagtag	agacgggggt	41100
tcaccatggt	agccaggatg	gtctcgatct	cctgacctca	tgatctgcct	gccttggcct	41160
cccaaagtgc	tgggattaca	ggcgtgagcc	accgcgcccc	accagaagag	ttctttatgt	41220
attctggatg	ctaggtcata	tcagatgata	catgtatcat	tggatatatg	atttgcagat	41280
attcttgtgt	tagtccattg	catcactata	cagaaataacc	caaggctagg	tactttatga	41340
agaaaagagg	tttaggcoga	gcacagtggc	tcacgcctgt	aatcccacca	ctttgggagg	41400
ccaagggtggg	cagatcactt	gaggtcagga	gatcgagacc	agcctggcca	acatggcaaa	41460
accctgtctc	tactaaaaat	acaaaaaaat	tagccagccg	tggtggcgca	cacctgaaat	41520
cccagctact	caggaggtgg	aggcttcagt	gagccgagag	cgtgcctctg	cactccagcc	41580
tggttgacaa	agcgagactc	cgtctcaaaa	attaaaaatta	aaattaactg	ggcatagtgg	41640
catgcacctg	tagtcccagc	tacttgggtg	gctaagggtga	gaggattgct	tgagcccagg	41700
agtttgaggc	tgcaagtggc	catgattgca	ccactgcact	ccagcctgag	tgacagaatg	41760
agactctgtc	tcaaaaatata	tatatatatt	tatagtaaaa	catatatggc	aaaaacactg	41820
gccacttggt	ttgcgatggt	gatacaaaata	caaatatata	tcatcactaa	gcaagtggcc	41880
agtgtttttg	ccatatatgt	tttactataa	cacataacta	gagcatactt	tactgtttgg	41940
catggcagtg	attttttatga	attaggcacc	tgtgaggtag	atgttactct	gcccattttta	42000

cactcaaaga	acctgggctt	aggaggggtt	agatttgcct	acgactgcac	agctggtagg	42060
tggtagagcc	agaattcaag	ttcagatttg	tctgggtcca	cggtgggccc	ctgacctcca	42120
ctccacaact	tcccttcctg	gggacataaa	tctgtgtctgt	tcccaggcct	attcatcagt	42180
tcaccagggt	ggtctaacgt	ccatggagcc	cctgacatgt	gctagtgtctg	aactaaatga	42240
gcttgaagaa	gcttgaaagt	gaacaggaga	aggctcctct	agagtatgaa	caatagtggg	42300
ttgtttttac	catgcttacc	tttgtggaag	agagctgaaa	ttttcacctc	ttctttctta	42360
taggctgcc	gggcacagt	cccccaagg	actgaaatag	actagatttc	cttctctttt	42420
taatgtttaa	actttaaaag	aaatgcgtgc	tagctgtaaa	aattcaaaaa	aaaagcccgt	42480
ctgcctcagt	cctgcagccc	tctccagagg	gagtgacctc	gtacagtttg	gcacatatta	42540
ttccagtcct	tatccatttg	taagcataaa	aagtgcatac	ttttatgagg	ctataaatgc	42600
ataaagacgg	atatataaaa	tatataagtg	tatatataat	tttagggctt	ttttagtggg	42660
ggaaaatcca	caaatggata	atactttgga	tattttctgc	agctcgcttt	tttccacctg	42720
acgtacattt	acgtctcaca	ttgccattcc	tcttttgag	agatcctaca	gtaagggaatt	42780
gtttgaagaa	gttatttcaa	agatgcggaa	ggcagggatc	aaatccacaa	tagcaataga	42840
aaaattttaag	ctgctcgccg	agaaagtggg	ggagatagtg	gccaagaacg	cacgcgcaga	42900
aatcgactac	agcgacgctc	ctgatgagtt	cgaggccaag	tggactcgct	gttttcatgc	42960
tgatttcttt	tgagttaact	ggaaatcgat	aacattacaa	gaggacgtcc	tgtgcaatta	43020
attttttaat	ggtgtgctag	agctgctttt	tgagacaatc	tgtcttaaat	tacatttgcc	43080
tattttttagc	tcatattgta	aattgagagg	aagaaacatc	cttagcttag	cctgacttaa	43140
agccagataa	caaccctgaa	gattctaaag	gcagggctgc	ctttgcaagt	ggggattcac	43200
attttcaaag	aattcccaga	agtcctaaga	caaagaattc	cagcctgccc	tcctcgccac	43260
ggagcctgtg	gggcctgctg	ctgggtctgt	cccaggcttt	cttctctgtt	ccctcccccc	43320
agcagtagct	gacaaagaag	cgccttcccc	ttacaaaagg	caatgtatat	gcctttattg	43380
aaggctgatt	tccttctaaa	cctggggggc	tcacaggggc	cctttgattg	ctgttccttt	43440
ggatagattt	ttcgctggta	gaacgggctt	tgttttcttt	ttcagtcgtg	ggctctcagt	43500
agattagagt	ttgctttgct	ttgtccccgc	agaccctctg	atggacaccc	tcatgacaga	43560
ccccgtgcgg	ctgcccctctg	gcaccatcat	ggaccgctcc	atcatcctgc	ggcacctgct	43620
caactcccc	acggaccctc	tcaaccggca	gacgctgaca	gagagcatgc	tggaaaccagg	43680
tagaggaggg	tgagttttga	ggtgcagcgc	tggcgtcagt	accaagagat	aaagcccaag	43740
tcacatatgt	gagatgaagc	agaagggaaa	tttatcaaata	gcagaaacta	cctactttat	43800
gacactctgt	agcaaagacc	caaaaacactc	ttggcccttt	ttccctgcag	acatccagtc	43860
cctccctctc	atgtcccagt	ccttctggag	tcttcggctc	aatgagggaa	agaatggcct	43920
tttctttccca	tttatacaga	gcgacaagca	tctctctctca	ggaagagccc	tcccatctgg	43980
ggcattatac	ctcctttttt	tcttttctca	gtgccagaac	tgaagagca	gattcaggcg	44040
tggatgagag	agaaaacagaa	cagcgatcac	taaaaccgttc	cgccgcccac	cctctgctag	44100
acacagccaa	ggccaacgag	gcaagcagaa	gcagcgcccg	cagcgaagct	gccgttcatg	44160
tgttgagggc	caaagtgtgg	aaaccaaccc	caggcccacc	cagagcgagc	aaacgctgag	44220
acctgaaagg	acatggatga	gaagaggagc	cgccttccctg	tacatatatt	taagtgaaca	44280
acacgggtcaa	aagcttaagg	gacaggtttt	atggttgctt	gtgtaataaa	gcatgtcctt	44340
cgtatgtcac	agtttggggc	aacggaagtc	ttttagtgt	ggctaattggg	tctgggcagc	44400
atcccttcat	gaattttttt	ttaatccaat	atccgttgat	ttgatgtgga	ttagagaacc	44460
ttggacattt	tgtgctaaa	gaatcttttt	tccctctctc	cccttctctga	ccctacttgc	44520
actgctgtgg	atttttttaa	gagaagcaaa	aacaaaagta	aactcctttc	cctggccctc	44580
caaacatata	ttctgtgaga	taactgtgcc	tgctaccaag	tgttaatcct	gggatcgat	44640
ttttatatca	tattcacata	tttgtttttt	taattgggtg	tagatgacat	gattaataaa	44700
aaaggcaaga	tatttttcaga	atttgaattt	cagttttttt	ttctttttga	aatgtccctt	44760
taagattttt	ttattctaaa	caaaaataaag	aaaatcctgc	tgctctgggtc	cttgtgataa	44820
gcctctcttc	ggcatctgag	gagcagctgc	agcaaaatct	aggggtgttaa	gtgtatcagg	44880
acttatgtga	cttatatttt	ggggagatga	gggttggtt	ttttttttaa	tgctacgtga	44940
cagtttgaaa	ccttcacagt	tatcctctgg	gggtaaatca	attcttcaac	ccttgggtgt	45000
gtgagtttga	ggcaggggtc	tttgtgtgat	gtgtttggcc	ttaccaaaagc	aaaagagggg	45060
gcaggaatgt	gggagtatgt	ctggcggttt	caacacacac	agacaaacac	agccacacgc	45120
gcacacaagt	ataagacttt	ttgtattact	gctccctact	taacatactt	gaattctcaa	45180
atttcctttg	gggtaaaaaa	aaaaaaaagg	tttgaaacca	taaagtgttc	tgaagaaatt	45240
aagtctataa	aaagcatact	ttcttttttc	ttttcctttt	ttccctccac	agacaatgtc	45300
ctctgttcaa	ttcctaacgc	aaactacaat	aaatgggtgac	acacgttcag	aagaaatcct	45360
ctttgagtc	cttctctttt	gtggaaaaaa	aaaaagggca	gggcgggtgg	gtaaaccaaga	45420
gccaaagtga	tttgcattgt	gtgaatgatc	tttctgggat	ccaattagga	gctgctattt	45480

ttaaaagaaa	actttcttat	tcattgtcagt	ctcgacattt	ggttctcatt	tactgtttg	45540
ctgatttgag	ggggtaaagt	ttgtcatatt	cagtcttctg	cctttcttga	gtttcttctg	45600
ctttatctca	agtatcttcc	ctgaccttca	agattcttcc	tcaggccggg	cccggtggct	45660
cacgcctgta	atcccagcac	tttgggaggc	tgaggcggat	ggatcacctg	acgtcaggaa	45720
ttcgagacca	gcctggccag	catggtgaaa	ccccatctct	actaaaaata	caaaaaatta	45780
gccgggcgta	gtggcagcgc	ctgtagtccc	agctactcgg	gaggctgaga	caggagaatt	45840
gcttgaacct	gggaggtgga	ggttgcagtg	agccgagatg	acgtcatcac	actccagcct	45900
gggtgacagc	gagactccgt	ctcaaaaaag	aaaaaatata	tatttatata	tatttacata	45960
tatattttatt	tatatatatt	tatatatata	tatataacat	ggccagggtgc	ggtggctcac	46020
gcctgtaate	ccagcacttt	gggaggccaa	ggcagggtga	tcgtctgagg	tcaggagttc	46080
tagaccagcc	tggccaacat	ggtgaaaccc	catctcaact	gaaaatacaa	aaattagctg	46140
ggcgtgggtg	tgggtgccta	taatcccagc	tactcggggg	gccgaggcag	gagaattgct	46200
tgaacccagg	aggtggaggt	tgcagtgagc	tgagatcgcg	ccatcgcact	ccagcctagg	46260
ggacaagagt	gagacttcgt	ctcaaaaaat	agatagatag	atagacacaa	taaataggga	46320
aaaagttcat	gatagcaaaa	atttttaggca	atataagcaa	aaagaaaaaa	aatccatatt	46380
ctcaccatgc	agaagattct	gtttaattgg	gtttactttt	tactaaactt	acatatctaa	46440
gcttgatgct	tgtagaatta	ggatactgac	tggcatcttg	cctaattttg	tttgtgtggt	46500
tatctgacca	gtgtgtactg	cttgtctcct	ctccatccca	gattccaaac	tcttatttta	46560
atcctccagt	tgtccccgtg	aatgtaataa	aatgctgctt	tataccgcca	tatgcacttg	46620
tcgttttgaa	taattcagag	gtttcaagga	cctgccggat	aggacagaga	cacagtcaag	46680
ctcctgcctg	tactatctat	agggggaaga	tgatttgggt	ttccattttt	agagtctcaa	46740
gagttgctgt	tttgtgtttg	tctgcagctt	cttaattgtg	gatattgaaa	taaatcccaa	46800
aatatattaa	aagtaggtct	tggctaaaag	gaagattgtc	aaataagaga	atcagattgg	46860
cagaagagaa	atgatccttg	agagaaaagat	gattaaaatc	tgcttgtgtt	tgtgactcag	46920
tgttgtgtag	attttaaaaa	gatattgatt	gaatatcttt	tgaaaaaaaa	gctgagcaca	46980
ccgttcactt	tttgtaacct	ctgggtttgg	tacatcgagt	agtgaatttc	acagcaattt	47040
gattggagtg	ctaaagtgc	atgaataggc	ctcatttgag	taggtacttt	tttttgtttt	47100
ttggtttttt	tcagacggag	tctcgctccg	tcacccaggc	tggagtgcag	tggcgcaatt	47160
ttggctcatt	gcaacctcca	ccttccaggc	ccaagtgtat	ctcctgcctt	agcctccga	47220
gtagctggga	ctagagcaca	tgccaccatg	tccagctaat	tttttttttt	tttttttttt	47280
tttttttagta	gagatggggg	ttcaccatgt	tggccaggct	ggtcttgaa	tccagacctc	47340
aagtgatcca	cctgcctcag	cctcccgaag	tgctgggatt	acaggcatga	gccaccacac	47400
caggcctcaa	ggtacgtttt	tgattgaagg	agacacagta	gcctatgagc	ttgatgctgg	47460
tgatcatatc	tgttgggtgaa	gaaagtctat	ctgaattggg	gatgatcatt	tgcatctcat	47520
gagcatattc	tatgtgcaag	ccactcttac	atgtattaat	tttttttttt	tttttgagac	47580
agagtctcgc	tctgtcgccc	aggctggagt	gcagtggcgc	gatctcggct	cactgcaagc	47640
tcgcgcctccc	aagttcacgc	cattctcctg	cctcagcctc	ccgagttagc	gggactacag	47700
gtgtccgcca	ccatgcccag	ctaatttttt	gtattttttg	tagagacagg	gtttcaccgt	47760
gttagccagg	gtggctctga	tctcctgacc	tcgtgatcca	cctgccttgg	cctcccaaag	47820
tcctggggatt	acagacaaga	gccaccgcac	cggccacat	atattaatta	atttaacct	47880
ccacaacctat	aatgtagtgg	aactggcaca	tgaatctagg	ccatctggcc	tttccagcct	47940
catctcttcc	cgactcctgc	tgtatggcag	agttccagaa	tgctagaagt	tcagaatagc	48000
tcagaatgcc	caaggagaag	cagcatagca	ttttggaagg	gactttggcc	ttgagatcag	48060
ctctagacct	aacccccatt	ttaaacaatt	agataaactc	aatatcacag	ctttcattcg	48120
ttactagcca	ctcacgttga	ccccagatgt	atatctcaaa	cctccacttc	tctcctgtac	48180
tgtacacact	ggccatctca	gatgactaaa	aggctctcag	acttaacata	tcccaacctg	48240
aactctgtac	atttcacccc	acgcccgcct	ctcttagtct	cctcatcaca	gtaaatgaca	48300
actccatcct	tccaagtgc	tcaggccaca	aaccttcgag	tcaccttga	ctccgctggt	48360
gtgctctcct	cctatgtcca	atctgtccac	aaatctctct	gctcagctgg	gtgcagtggc	48420
tcacgcctgc	aatcctagca	ctttgggaga	ccaaggtggg	tggatcacct	gagggcagga	48480
gctcgagacc	agcctggcca	acatggtgaa	acccgcgtct	tactaaaaat	acaaaaatta	48540
gttgggcctg	gtggcgggct	tctgtaatcc	cagctgcttg	ggaggctgag	gcacaagaat	48600
cacttgaacc	cgggaggcgg	aggttgcagt	gagctgagat	cgggccactg	tactccagcc	48660
tgggctacaa	agtgagactc	tgtctaaaca	aacaaaaaaa	tccctctggt	ctacctacaa	48720
aatgtatccc	agaactcgac	gactactccc	caggtccccct	cctgtcactt	tggtttgagt	48780
tgtgtgctgt	ggctctctcc	tggattatct	caacagcatc	actggctctc	ctgcctctcc	48840
ccttaacctc	ctttctcaga	aaagcaggtg	ggatgatctt	gttaaaactt	tggctgggcg	48900
tgggtggctca	cacctgtaat	cccagcactt	tgggaggctg	aggtgggcgg	atcacctgag	48960

gtcaagagtt	tgagaccagc	ctggccaaca	tgggtgaaacc	ccgtctctat	taaaaataca	49020
aaaatcagct	ggatgtggtg	gtgtacgcct	ataatcccag	ctactcagaa	ggctgaggca	49080
agagaatcgc	ttgaacccag	gaggcggaga	ttgcagtgag	ccaagattgt	gccactgtac	49140
tccagcctgg	gtgacagagt	gacactctgt	ctcaaaaaaa	aaaaaaaaaa	aaaccaaata	49200
aaaaacaact	atagctaggc	gtggtggcat	gcacctgtgg	acccagctac	tcaggggctt	49260
tggcaggagg	attgcttgag	tccaggaaagt	tgaggctgca	gtgagccgag	attacaccac	49320
tgtactccaa	cctgggtgac	aaagtgggga	ccctatctca	agaaaaagat	gctgggtgag	49380
gtgactcacg	cctgtaatcc	caacactttg	ggaggccgag	atgggcagat	cacgtgagggt	49440
caggagttcg	agaccagcct	ggtcaacatg	gtgaaaccca	gtctctacta	aaaatacaaa	49500
attagccaag	catggtgatg	cgtgcctgta	caagtcccag	ctacttggga	ggctgaggca	49560
gaattgcttg	aacctgggag	gcagaggttg	cagtgaacccg	agattgtgtg	ccattgaact	49620
tcagcgtggg	caaaaaaaga	gcaaaaattg	cgtctcaaaa	aaaaaaaaaa	gaaaaaagaa	49680
agaaaggggc	tggaaaaaaa	accctaaagc	cagggtgtgg	gttgacgccc	tgtagtccca	49740
gcacttccag	agatcgagggt	gggaggatcg	cctgagccca	gaaattcaag	gctgctggag	49800
cagaagctcc	agcaaatgca	aggggctatg	atctagccac	cacactccag	cctgggtgac	49860
agactgagac	tccatctcaa	aaaaaaaaaa	aaaagaaaga	aagaaatcct	tacaataacc	49920
tggaaaggcaa	aacgctcacc	tcgcattctc	tctgatctca	tctoctacaa	cactcccctt	49980
actccaaaaa	ctcagccatt	ctggcctcat	tgtctctccac	ccctgctagg	gcactagact	50040
acttctctta	tgaagaatcc	tcttcccaca	gatatacata	tgggtcagtc	actcccttat	50100
ttgcttttaga	tctttactca	aatatcacct	tgggtgagtcc	ttccctgtcc	accctattta	50160
aaaatgtaat	ttattcacct	aaccttggtg	tcccttgcta	ttccctttct	ttgcattttc	50220
tccctggcat	ttatcactat	ctaacatgct	atatctatta	tgtactttac	agtccacttc	50280
ccccactag	aatgtaagcc	cggggtgggg	gggggcagag	atttttttct	gtatccttgg	50340
cacctataag	tgtgcctggc	aaatatatgt	gttgaatgaa	ttaatctctt	catatatattg	50400
ttactctagt	tgtatcagtt	atttattgct	gcataacaaa	atcaccccaa	aatggagtgg	50460
cttgggttcaa	taacagtgat	tttatccccc	acagttctgg	aagatccaag	agcaagcttc	50520
caagaggacc	agacagaagc	tgtgtattgc	cctttttacag	cctaggcttg	gaagtcacat	50580
aggtctcact	cagcagcagt	cacaagcctg	cctggattga	aggggaagaa	atgcagaacc	50640
cgcctcatgc	tgggagggag	gtcaacgtca	ctctgtgaga	agagcttctg	ggatggggaga	50700
cgctggttctg	accatcttgc	aaataacatt	tgccacgttc	ctcctctggc	aacaattttac	50760
attcttcata	tctgcaaaat	gatgccttat	ttccttcccg	tgagattccc	aaaccgcatc	50820
ccatcagggc	atccgcttca	agtccagcat	ctcatcattg	aaatcaagtc	cagctgcaga	50880
tgaggcttct	cagatggatt	ctttgaacgt	agttccttga	gtgttaattct	tacggattta	50940
aagatctggt	aatgaaagat	acaagttacc	tgacacacac	tgacacacac	cacacaccac	51000
gtgcacacat	acaccacaca	ccacatagac	acacacgtgc	acacacacac	cacatgcaca	51060
cacaacatgt	gcacacacac	catgcatgca	atgatgggac	aggcatggga	aaaccattct	51120
ggatgatcct	gttcaaaaag	gtggaaaatg	gtacccacac	ggagtccactg	gtccatagta	51180
ttaataattc	tgagatccaa	ccaggcatat	gtcaccagtt	ccttggttcag	ggctcagttc	51240
tcagagccag	gaattgttca	ccaagcctct	cagctccacc	ctcttggttc	tttttgcttc	51300
tgaattcttt	tcttcttttt	ccataaaaaca	aaaaacaaaa	actgagcttg	caatttaagcc	51360
ttctcagtac	atttctctgt	tattaaaaaa	atatatacat	atgttgagtc	aacgccgggt	51420
gcgggtggctc	acgcctataa	tcccagcact	ttgggaggcc	gagggtgggtg	gatac	51474

<210> 61

<211> 3530

<212> DNA

<213> Homo sapiens

<400> 61

agatctcacc	actgcagtc	agcctgggtg	acagagcgag	actctgtctc	aaaaaaaaaa	60
aaaaaaaggt	gcaggataat	aggtgcggga	cagtggcatt	tatacataaa	gtctgaagta	120
tgaatatgag	cactatactg	tttaggacta	aatttatgta	tagtcaagtg	tgaaaacatg	180
gatggcaatg	acaatcatca	aattcaggat	gagattaacc	caggaaagaa	agagagaaaa	240
acaaaacaaa	caaacaaaaa	aaggagggat	gacatgagga	tctgcaactt	tatgtgtaat	300
attttatttc	ttgaaaaaca	aaataacagg	aagatggaaa	tgttgagttg	ggaggaaaaa	360
ccagagaatt	tattgatattg	tcttgaaact	cttattgtta	ttattatttt	ttgtttgttt	420
tttgagatgg	agtctcgttc	tgtcgccag	gctggagttc	ggagggtgcta	tttctgccgt	480

tgatgatttt	ccgccttcca	ttttcttctc	tggaaatgtc	tattattgat	tgattgattg	540
accgattaat	tgatttagag	acagagtctc	cccttctcac	ccaggctgga	gtgcagtgac	600
tcgatctcgg	ctcactgcaa	cctctgcccc	ccaggttcaa	gcgagcgat	tctcctgtct	660
cagcctccca	agtatctggg	attacaggtg	cccaccgcca	tgcccagcta	atttttgtgt	720
ttttagtaga	cacgggggtt	cactgtgttg	gccaggetgg	tctogaactc	ctgacctgag	780
gtgatctgcc	cgcttcggcc	tcccaaagtg	ctgggattac	aggcgtgaac	caccacgcct	840
ggccctgtca	ttattattat	tgtttttttg	ttttgttttg	ttgggaaaga	gtctcactct	900
gatgctcagg	cttgagtgca	gtaatgcgat	ctcagctcat	tgcaacctct	gcctcctgag	960
ttcaagcaat	tttcgtgcct	cagcctccta	atgtagctgg	gattacaggc	atgtgccacc	1020
acacctggct	aatttttgtt	attttagtag	agatggccag	gcacagtggc	tcgcgctcgt	1080
aatcccagca	ctttgggagg	ctgaggcaag	cagatcgcat	gaggtcagga	gttcaagacc	1140
agactgacta	acatggagaa	acttcgtctc	tactaaaaat	acaaacttag	tcgggcatgg	1200
tggcacatgc	ctgtaatccc	agctgctcgg	gaagctgagg	caggagaatc	gattgaaccc	1260
gggaggcaga	tgtcgcagtg	agctgagatc	gcgccattgc	aatccagcct	aggcaacaag	1320
agcaaaactc	tgtctcaaaa	aaaaaaaaat	tgtagtagag	atgggggttt	gccatgttgg	1380
ccaggctggg	cttgaactcc	taacctcaag	ggatccaccc	acctcggcct	cggcctccca	1440
aagtgcctga	attacatgca	tgagccacta	cgcccagcct	attgtcatta	tttaatacgg	1500
tgtttaatac	agtgtatgtg	gggggggaat	atgttcgttt	tttttttttt	ttgagacaga	1560
gtctcactgt	gttggccagg	ctggagtgca	gtggcacgag	ctcagctcac	tgcaagctcc	1620
ctgtcccggg	ttcacgtgat	tctcctgcct	cagcctcccg	agtagctagg	attacaggct	1680
cacactacca	cgtcgagcta	attttttgtg	tatttttgagt	agagacgggg	tttactatg	1740
ttggccagac	tgtctcgaa	ctcctgacct	tgcaatctgc	ccgccttggc	ctcccaaagt	1800
gctgggatta	caggtgtgag	ccactgacca	ggccatcatg	ttagttttta	tactttacta	1860
cctgtttaaa	aaatacatat	gtaatttatt	ctgggcaagg	tgggatgcac	ctgtagtccc	1920
agctacctgg	gaggtgagg	tgggtggatc	tcttgagccc	aggagctcta	ggctacagt	1980
cactttttatt	gtacctgtaa	atagccactg	cactccagcc	caggcaacag	agcaagaccc	2040
cacctgtaaa	aaagtaaata	acttcataac	ttaaaaaatg	ataggtcagg	ctcagtggct	2100
cacacctgta	acccagcac	tttgggaggc	tgaggcaggt	ggttcacctg	aggtcaagag	2160
tttgagacca	gcttgaccaa	cattggtgaa	ccccatcttt	actaaaaata	caaaattagc	2220
cgggcggtgt	ggcacagtcc	tatactccta	gcttctcagg	aggctgaggc	aagagaatct	2280
cttgaactca	ggaggcagag	gttgagtgta	gctgagatcg	tgccattgta	ctccagcctg	2340
ggcaacaata	gagaaactcc	atctcaaaaa	aaaaaaaaaa	gatattttgt	cagaggcatc	2400
ccagctgtga	tgccaccagt	aatcctctgc	agactgggtc	ggcagctaca	tcagagggca	2460
tgggaccgat	ccccagcagc	tgagccatgt	gtgaggagcc	gagtgggtgg	gagacagcaa	2520
gccataatcc	tctctctctg	acctgggttt	cagatgccct	agtctcacag	cctgcactgt	2580
aaaaggccac	cgcgctctcg	ccacacattt	ggtaaatgtg	ttatggaaat	cccttctctg	2640
ctgagtccat	attcactcaa	aactgccaca	tgccgactct	tgcaactgaca	aaaatgtggg	2700
aagagcccaa	tttcatttct	ggcaaaatcc	tctacaggac	catccatgcc	cataaagaga	2760
attactttcc	agttatttta	accaaggcca	ggtaacacat	ggacttgagt	cctagatcat	2820
gttgcatgag	taaaaatagg	aactgcttac	attgttgagc	ttaagagact	aggcagctct	2880
ctaccccatt	aaatctagaa	aatatatgct	ttcctatgca	aaatctttat	aaatattaat	2940
taatgtctat	tttatgtaag	tatgtatcta	ttaaactactg	aattaaataa	tgacaataag	3000
gagcttaaat	caataaattt	tctgtttttt	gccaatgagt	actttaacaa	acaggatgca	3060
atctgggtta	actcattaat	attaatgtac	agtggcacca	cttatgccag	ggttatttgg	3120
aatcagaaaa	tcaaaactgg	aagatgcttt	agaattgggtc	tgctacctag	tcaggaaaata	3180
agcacagcaa	gtctctagtt	tgctgaggac	cgaatttttt	ttttttcttt	gagactgtgt	3240
ctggctctgt	cgcccaagct	ggagtgcagt	ggcgcaatct	cggctcactg	caacttccac	3300
ctcccagggt	caagcgattc	tcgtgcctca	gcctcccagc	ctccctagta	gctgggacta	3360
caggcacctg	ccaccacacc	tgactaattt	ttgtattagt	cagagatggg	gttttagtaga	3420
gatgggggtt	caccatgttg	gtcaggctgg	tctcaatctc	aagtgatatg	cccgccttgg	3480
cctccaaaag	tgctgggatt	acaggtgtaa	gccaccatgc	ctggcctagg		3530

<210> 62

<211> 2607

<212> DNA

<213> Homo sapiens

<400> 62

```

tctagaggtc aaggctgcag tgaaccgtga ttgtgccact gcacaccagc ctgggcaaca 60
gagtgagacg ctgtctcaaa aataaataaa ataaaacaaa ataatgttaa aagactcttg 120
gaaaagagca gtgctggagg agagacacag gaaggtttct tgaacggcag ggtgacgtgt 180
ggggacggca catggggaat tatggcctac aatttaatgc cacaaactct gtccacctcc 240
agctcaccag gcgtgtccac acacacgctc accaggaggg cacagcttag ggctgagcc 300
ttgaccttgc tcagtacaca ctgctgttgc catccagggt ggttgttaaca cccaggggat 360
tagcagcccc agggaaaataa ccagacatct gaggagcaaa tggccagaaa ttggagacaa 420
taaactgagc agtttatatc aggggaagca gaatgaatgg actggacaca acagaagttt 480
taataagca taataaatat cttcaaagag ataagagatg ctattagtaa caagtaatag 540
aataagcctt tttttttttt ttttgatacg gagttttgct ctttcaccca ggctggaatg 600
cagtggcgct atctcggttc cctgtaagct tgcctcccgc ggttcacgcc attctcctac 660
ctcagcctcc cgagtagctg ggactacagg cgcctgccac tacgcccggc taattttttg 720
taatttttagt agagacgggg tttcaccatg ttagccagga tggctctgat ctctgacct 780
tgtgatccac ccgcccgtgc ctcccaaagt gctgagatta caggcatgag ccaccacacc 840
cagcctgggt gacagagtct tactctgtca cccaggctgg agtgcaatgg cgcaatctca 900
gctcactgca acctccactt cccaagtcca agcaattctc ttgcctcagc ctctggagta 960
gctaggatta caggcgtgca ccaccacacc ctgcaaattt ttgtgttttt agtagagacg 1020
gggtttaacc atgttggcca ggctggtctc gaactcctgc cctcatgtga tccgctgcc 1080
tctgcctccc aaagtgtctg gattacaggc atgagccact gtgcctcaca tataataatt 1140
taccgaattg tacatctatg tttcattcat tttgctgact aagtgttgaa atagcttgga 1200
tatttgtccc tgcgaaacc tcataatgaa atgtaatctc cagtgttgga ggtgaggctt 1260
ggtagggagt gtttgggcca tggagggatc cctcggtggt tggtgccatc tctacttgtg 1320
atagtgaagt agttcttacc agatctggtt gttttaagag taagtggcgc ctctccgcac 1380
cttgcctctg ctgtttctct gtgaagtgtc tgcctcccct ttacctcca ccatgagtaa 1440
aagctccccg agggctcccc aaacaccaag cagacaccgg tgccaccctt gtacagcctg 1500
cagaaccatg agccaattca atctcttttc tttataaatc acccagcctc atataattcct 1560
ttcactgca gaggtgtcca atcttttggc tttcctggac cacattggaa gaagaagaat 1620
tgtcttgggc cacacataaa atacactaac actaacgata gctgatgagc taaaaaaaaa 1680
aaaaaaaaat gcaaaaaaaaa tctcataatg ttttaaggaa gttcatgaat ttacgctggg 1740
ccacattcag agctgtcctg ggctgcctgc agcccacggg ccccagggtt gacaagcttg 1800
ctttatagca atgcgagaat ggcctaacat aggtgttata ctttatttat tattattatt 1860
attataatta ttattatttg agatggagtc ttgctctatc accaggctgg agtgcaatgg 1920
cgcgatctca gctcactgca acctccgct cctgggttca agcgattctc ctgcctcagc 1980
ctcctgagta gctgggacta caggcgcacg ccaccatgcc cagctaattt ttgtattttt 2040
agtagagatg gggtttcacc atgttggcca ggatggtctc gatcacttga cctcgtgatc 2100
tgccctgctt ggccctctgaa agtgctagga ttacagggtg gagccactgc tcccagccag 2160
gtgttacact ttataataaa aagatggggc ccaaagataa acaacaacaa aacaacaaa 2220
caaacaacaa caacaacaaa acaaagaaaa ggtgggcccag gcacaagggc tcacacctat 2280
aatcctagca ctttgggagg ccgaggcagg aggattgctt gagccagga gtttgagacc 2340
agagtgggca acatagtga actccatctc cacaaaaaat acaaaaaatt agccaggcgt 2400
gggtgtgcac acctgtagt ccagctactc aggaggctga ggtgggagga tgcgtggagc 2460
ctgggaagtt gaggtgcag tgatctgtga tcatgccact gcactccagc ctgggcaaca 2520
gagtgagacc ctgtctctaa ataaataaat aaataaataa ataaataaaa taattaaaat 2580
aaaactgact aggaagtaag ttctaga 2607

```

<210> 63

<211> 4276

<212> DNA

<213> Homo sapiens

<400> 63

```

actagtatta tttcattctt gtttatcact ttactgaaag atcaatttga gtcttctcct 60
tagattcctt ataataccgaa gtgcctttga gggcaagtgg gaattctaca agatcaaaat 120
taagcaattg ggcaaaaatt gagaaaaatt caaatgaatt agacctaaat gttttattgt 180
ctctttaatg ttagtgaatg cttctggaat ttttctcca ttccacttcc ctaacgcttc 240
taattgtatg tgcgaaggaa aagtggtcag aagaacagtt tagaactcag gctgtgtaag 300

```

tgatttagag	tatgtatggg	taccttttct	accttttctgc	tctggctttc	aaaacttggg	360
agatgtat	ttttgcta	tattaagaaa	tggttgtttc	ctataacttc	ttaaaaataa	420
ctctgtagg	tggtgtggg	ggctcacgcc	tgtaatccca	gcactttggg	aggccgaggg	480
aggcgggtc	cgaggtcagg	agttcaagac	cagcctggcc	aacatagtag	aactctgtct	540
ctactaaaa	tacaaaaatt	agccaggtgt	gggtggcacgc	acctgtagtc	ccagctactc	600
gggaggctga	ggcaggagaa	tcgcttgaac	ctgggaggca	gaggttgcag	taaaccgaga	660
tggtctattg	acttcatcta	gcctgggtga	cagagcaaga	ctctgtctca	aaaacaaaac	720
aaaacaaaac	aacaaaacaa	aaagcacctc	tgtaaaatta	ttgtttcttg	ctggatttta	780
aacttgat	cagacttaca	taagtaattc	tttaaaggag	cagggagttt	tgaaactaag	840
tctttgatgg	atgtctatta	taatggatac	tgtttatagt	agtagagaag	tgacagaata	900
actttctgta	gtccacttaa	ctgtagcttt	gaatgactgg	ataacatttt	cactaaattt	960
tgaagatgg	tgcaagggtg	tttttttttt	tggttgggtt	gggttttttt	tttttttttt	1020
tagacggagt	cttactctgt	caacaggctg	gagtgacagt	gtgcgatctt	ggctcactgc	1080
aacctctgcc	tcccgggttt	aagcaattat	cctgcctcag	cttcccaggt	agctaggact	1140
acaggcacgt	gccaccacac	cagctaattt	ttgtatttct	agtagaaacg	ggatttcacc	1200
acgttggcca	ggatgggtct	gatgtcttga	cctcatgatc	cgcccgcctc	ggcctcccaa	1260
agtgtcggga	ttacaggcgt	gagccactgt	gcgggcctga	agttttttacc	atgagacagt	1320
aaaatcagaa	aaaatattta	ggtttagggt	gttttgagaa	agtaattaaa	tataaacttc	1380
taaaaaggat	agatgttatt	agcacacaac	aatgcccggc	taatttttgt	gtttttttgc	1440
agaaataggg	tttcacatgt	tgccataggct	gggtctgaac	tcctgagctc	aagccatctg	1500
cctgccttgg	cctctgaaag	tgccagaatt	acagcaggtg	tgagtacagag	tgtacagccc	1560
tgaccgtggg	ttttgtttgt	ttgtttgaga	tggagtctcg	ctctgttgcc	caggctggag	1620
tgcagttagtg	cgatatccca	gctcactgca	acctccgcct	cccgggttta	agcgggtctc	1680
tgccctcagcc	tcccagtagt	ctgggtttac	aggtgcgtgt	caccacgcct	ggctaatttt	1740
ttgtattttt	agtagagatg	gggtttcacc	atgttagcca	ggatgggtctc	gatttctctga	1800
ccttgtgatc	cgcccgcctc	agcctcccaa	agtgctggga	ttacaagcgt	gagctgccgt	1860
gcccagcctg	ttttgtgtgt	gtgttttttt	gagatgttgt	tggtctctgt	gtccaaactg	1920
gagtgacagt	atggaatcat	ggctaattgc	agcctccaac	tcttgggctc	aagtgtacta	1980
cccacctcag	cctctcaagt	agctgggatt	accgatgcat	gccaccacac	ccagctaatt	2040
taaacaaaaa	tggttttttg	tagagagtgt	ctgaatatgt	tgcccaggct	ggtcttgaac	2100
ttctggcctc	aagcaattct	ttcactttag	cctcccaaag	tggtgggatt	ataggcgtga	2160
ggaaccatgc	ctggccccaa	tttatgtttt	ttatttaatg	ctgttttaaat	gttagtttgt	2220
tgacatccag	ttaaatagga	attcaaccaa	aaaaaataac	tattgtattc	aagacccatc	2280
ctgtgttgta	gggcagctgt	ccccattctt	tttagcccca	gggactgggt	ttgtggaaga	2340
cgggtttttc	acagacaggg	ttgggtgat	gggtctcagga	tgaaactgtt	ccacctcaga	2400
tcacagggca	ttagattctc	ataaggagtg	tgcaacctag	atcccttgca	tgacagttc	2460
acagtaatgt	ttgcacttct	atgaaactct	gatgccatcg	ctgatctcac	aggaggagga	2520
gctcaggcaa	taatgtctac	ttgcccaccg	ctcacctcct	gctgtgtggc	ctggttttta	2580
acaggccaca	gacctgtacc	actctgtggc	ctaggggttg	aggacccctc	ttgtagagga	2640
ttagaaactt	gactaaggct	gggtgtgggt	gtagctgcct	gtagtcccag	ctacttgagg	2700
ctgaggctgc	agttagctga	gatggttcca	ctgcactcca	gtctgggtgg	acagagttag	2760
gccttgtctt	aaacaaacaa	acaaaaaatt	agccgggcat	ggtggtgcac	ccctgtagct	2820
ccagctgctc	gggaaactga	gacaagagag	tcacttgagc	ctgggagggt	gaggctgcag	2880
tgagccatga	ttcccttgac	agagcaagac	cttgtctgaa	aaaaacaaca	aaacaataaa	2940
aaaagtaatt	tattctgcct	tgggtaagg	caatgatttg	aaaagtgtta	aatagaggag	3000
caattgtatt	tggttttggg	gtggagagaa	tccatcaaga	ctttagacag	gagcaagtga	3060
gaaggctcctg	gaagaataaa	ttggaattta	aaaagaacaa	gacaaaggac	acagtgggga	3120
aagggaagt	tgagcaaaaa	acacaggggc	agaaaaactt	gggatgcatt	ctggaagtcc	3180
tctggtgggt	ggttgtaaaa	gaatgtggct	ggaaggcagt	gttcatgtgg	gcttgtaaaa	3240
atagggtggt	tatgttgcag	aacactttga	atgccattgt	ggggagtcca	gtcattgtct	3300
cgttagcagg	aggggaactt	ggaggatttt	gaagtggaca	gtgatagaaa	tagatctgta	3360
cttcaggaag	gtgaactctg	gcaatattat	gtgttacaga	tagggcagat	gaaaagggat	3420
aattcaccta	attggataac	tgtggtaaa	ataataaaaa	atatttttaa	aaaagaaaat	3480
ggggatattg	tgtagtattg	atagggtagg	aggaagagag	agaaagctgg	ttaagaaggc	3540
cttgggtgag	aagtattgaa	agcctaaaag	gtaatggtgg	tggtagaaat	ggagagattt	3600
tatagatata	agctgattag	atggatagac	aaagcaagct	tttagcctgt	gtgagaacag	3660
cagaatgggt	agaacattaa	aaagaaatag	aaaggaggcc	aaagagctgg	tattgttttg	3720
gggatagagg	tttcggcttt	agttgtgtga	gattgaatga	aatgctggaa	ggatagctag	3780

gtagaggagt	cgagtagtct	atagaaaaat	gtatgtgtgt	atgtatgggg	acattaggta	3840
ttagagatgt	taatgttttg	gttcatagtt	acaaatacat	agtactttat	atctaaagcc	3900
caccaaggag	gtttcagcct	ttcttgtctt	gtttgtaaca	ttcaacactt	tggtagggtcc	3960
taggtagaac	acaaaagaaa	aaagttttgt	tttgtttttt	aaaattttaa	tatcaacagt	4020
attcaacaac	tatcaacatt	ttggcaatct	tgttctgtca	tcccctaaca	aattccttaa	4080
tatcatctaa	taccagcct	atcttcagac	tacctgatta	tctaaaaaat	gtatttttag	4140
gccgagtgtg	gtgggttcaca	cctgtaatcc	cagcactcga	aggctgaggc	tggaagatta	4200
catgagtcca	ggagtccgag	accagcctgg	gcaacatagc	gaaaccccg	ccctactaaa	4260
aatacaaaaa	gctagg					4276

<210> 64

<211> 6405

<212> DNA

<213> Homo sapiens

<400> 64

actagtaagt	aaccactatg	ctgagtttcc	tttgtaacta	ccgttaactg	tgaaatttct	60
tgaattgagc	tcaagcaaac	attggcttca	ttctgttcca	gttgtttagt	gttatggcca	120
catttttaac	ttgtcatcat	gttaaggctc	caaattcacc	ttcaagtctt	aaactgtgat	180
aattgatagc	tttcaacttc	ataatcactt	tatgtgtgtt	ctcccaactc	aagtctccta	240
aaccgtcggc	ctcttccaga	ttttacttct	tttccttcc	ttctataact	acgacctctg	300
ggttgcattg	cttgacgttt	ttattcttct	ttattattct	tcaggactta	ctatgcagaa	360
gccagcctca	catcatccct	accatccata	ccctccattc	ttactccgtg	tcatggagaa	420
acctgcatag	tgctggggat	tagtgccaca	attaatgtgt	agtccgaggt	ctccctttaa	480
tctgtctttg	gtccctgtcg	gagcagttct	gcttagctcc	ctccccattt	ctccacagtt	540
gctattataa	aatctggacc	ccttgactca	aacctgtcac	tgcccatg	ttggcagaat	600
accttgccctg	ccacctcata	ggaaaaaagg	gcatgaaact	cctgagcttt	cccttctctc	660
acttacaac	ttctctgccc	tcttcttct	gttcttctcc	ccagtgtgag	aaagagggtta	720
ctctgtcttg	gcctctgtta	gggtagcac	tgttctaate	tgtaggaact	cgcagtattg	780
gttactcttc	ttttccctgc	agtacttgcc	cattttcttt	tttttttttt	tttttttttt	840
tttttttttt	gagacagagt	cttggtctgt	caccaagact	ggagtgcagt	ggcctgatct	900
tggtctacta	caacctctgc	ctcccgatt	caagtgatcc	tcctgcctca	gcctcccaag	960
taggtgggac	tacaaacgtg	tgccaccag	cccagcta	ttttgtattt	ttagttaga	1020
tggggtttca	ccgtgttggc	caggctggct	tcaaactcct	gacctcaggt	gatccgccc	1080
cctctgcctt	ccaaaatgtt	gggattacgg	gcgtgaccca	ttgtgcccag	ccttttctac	1140
tggtcttgaa	cacaccaggc	atagtcctac	catagggcac	ttgctcttac	tctttctttt	1200
tctttttttt	ttttttttga	gacagccttg	ctgtgtctcc	caggctgggg	tgacagggca	1260
caatctcctg	ggttcaagca	attctcctgc	ctcgccacc	tgagcagctg	ggattatagg	1320
caaccaccac	caagcccagc	taattttgta	tttttagtag	agacgggtgt	tcaccatgtt	1380
ggccaggctg	gtcttgaact	tctggcctca	ggtgatccac	ctgcctcagc	ctcccagagt	1440
gctgagggtta	caggcgtgag	ccaccgcacc	cagctgctct	tactctttct	tctgcctgga	1500
atacttttcc	cctgaaatct	gcttggctaa	ctcctttacc	tctttcaagt	ctttgcttaa	1560
atctcagcac	atcagcaggc	ccaccctgac	ctcatttatg	cacctgcaca	gcaatccttc	1620
ccaccaccac	aatcttgaac	cccctgactt	tgtgtactc	ccccgtgatg	ctgattacat	1680
tctcgattct	ctataacctga	tttattaatt	ttaatgtcct	ccctctccct	actagaatgt	1740
aaattcctcc	atgacaagga	ggtttgttta	tcttttttgt	tcacggatta	tttttcccag	1800
gaactgcctg	ttgcattgta	ggcaccaggt	aaatagctat	tgaataaagt	atagaaatgt	1860
gcaagtcttt	cctattacaa	ataaagggtc	ggggggagga	aaatccctcc	ttcgtttctg	1920
ttccttccaa	taaaaatcct	cattcctatt	tgtctctctc	tgctcatcat	agccaggctc	1980
tgacagtgtc	atggatactg	gcatttccca	cttccgtgcc	aacccactac	aggctggctt	2040
cagtgctccc	tctgtcccc	cacttcattg	atactgccct	tgctgtgggt	tccagccttt	2100
attgctgaaa	ccaggaggca	cacttcacac	ttttgcagta	ctaagtatgt	tactcatttt	2160
gtttttttct	tccttgaact	tttggtact	tctgtttgtg	ggctgggttc	agtcttctga	2220
aactgctgtt	tttctggcta	ctcacatggc	tattaaattc	attcaacata	aatctttgtg	2280
caactttttt	tttttttgag	acagagtctc	gctctgtcat	ccaggctaga	gtgcagtggt	2340
gtgaccttgg	cctactgcaa	ccttcactct	ccgggttcaa	gtgattctcc	tgccctcagc	2400
tcccagagta	ctggggttac	agtcagtgtc	catcacacc	agctaatttt	tgtattttta	2460

gtagagacag	cgtttcatca	tgttggccag	gctggctctg	aactcctgac	ctcaagtgat	2520
ccaccgcct	tggcctccca	aagtgttggg	attatacgcg	tgagccacga	tgcccagccg	2580
atctttatgt	aactttttaa	agcttgctgt	gtcgtttgg	tttatttgtt	tttaggaact	2640
agaactttga	ctacacaaca	tatttacagt	gttaaatagc	agaataggct	attacaggaa	2700
gtttttat	atttataatt	tataccagtt	actacttcta	gaaaggattt	gagcagctta	2760
ccacaaatat	atacagtga	gctattaaaa	tataaataag	taaaaattta	tgtaacaaga	2820
aaaactaaat	gtatagggtg	cctcggctaa	tgtggttatt	gtaattta	ttggaacatg	2880
gaatttaatg	caaaaagggg	aagataaatt	gtacaatttt	cactctggta	aaagaaagcc	2940
taatagtttg	tcgagagaaa	ccttttttcc	tagtattaaa	ttctaaagat	gttctaagag	3000
aaaattgtta	taaacatcct	gatataaaga	tacgtacggc	cgggcgcggg	ggctcatgcc	3060
tgtaatccca	gcactttggg	aggccgagcg	tggtgcatca	ctgaggttgg	gagtttgaga	3120
ccagcctaac	caacatggag	aaaccccatc	tctactaaaa	atacaaat	agccgggcat	3180
ggtggtgcat	gcctgtaatc	ccagctactt	gggagactga	ggcaagagaa	tcacttgaac	3240
ctgggaggcg	gaggttgcat	tgagccgaga	tcatgccatt	gcactccagc	ttgggcaaca	3300
agagcaaaac	tccatcttaa	aagtaaaaaa	taggccaggc	cttatggctc	acgcctgtaa	3360
ccccagcact	tcgggaggcc	gaggcaggcg	gatcacctga	ggtcgggagt	ttgagactag	3420
cctgaccaac	atggagaacc	ccatctctac	taaaaataca	aaaaaatcag	ctgagtgtgg	3480
tggtgcatgc	ctgtaatccc	agctactcgg	gaggctgagg	caggagaatc	acttgaactc	3540
aggaggcaga	ggttgttgta	agctgagatc	gtgccattgc	actccagcct	gggcaacaag	3600
agtgaactc	acctcaaaaa	aataaaaaat	aaagacttac	tagggctggg	gacagtggct	3660
cacacctgta	atcccagcac	tttgggaggc	ctaggtgaga	ggattgcttg	cgcccaatag	3720
ttcgggtatca	gcctgggcag	tgaagcagga	tctcatctct	attaaagata	aatttagtgg	3780
atgggcgcgg	tggttcatgc	ttgtaatccc	agcactttgg	gaggctgagg	caggcggatc	3840
acctgaggtc	aagagttcga	gaccagcctg	accaacatgg	agaaactccg	tctctactaa	3900
aaatacaaaa	ttagtgggt	gtggtggcac	atgcctgtaa	tcccagctac	tcgggaggct	3960
gaagtaggag	aatcacttga	acccgggagg	tggaggttac	ggtgagccga	gatcgcgagc	4020
cattgcactc	cagcctgggc	aacaaaagcg	aaactccgtc	tcaaaaaaaa	aaaaaaaaat	4080
taggtagggt	tggtggcatg	tgctgtagt	cccaataact	ccagaggctg	agggaggag	4140
attgcttgag	cctgggagat	tgaggctgca	gtgaactgtg	attgttccac	tgtactccag	4200
cctgggcaac	agagtgagac	cctgtttcaa	tagatagata	gatagataga	tagatgatag	4260
atagatagat	agatagatag	atagatagat	agatatgtac	taaatgtttt	caacagcttc	4320
tttaagtaaa	aggaagaaat	gttcttcaaa	tacctttaca	aaataaaata	aaaaataaac	4380
agggcagtga	tgcatgccta	tagtaccag	ctactcctga	ggctgaggta	cagccaagga	4440
gttttgaggc	tgccatgagc	ttcaatcaca	ccactcactc	caacctgggc	ggtgaaaaag	4500
tgagacccct	ttcttttgtt	tcttttcttt	tttgagacag	agttttgctc	atgtcgccca	4560
ggctgtagcg	caatgggtatc	atcttggctc	actgcaacct	ccgcctccca	ggttcaagct	4620
attctcctgc	ctcagcttcc	tgagtagctg	ggattacagg	tgcttgccgc	caagcccagc	4680
tgatttttgt	gcttttaata	gagacggagt	ttcaccatgc	tggccaggct	ggtcttgaac	4740
tcctgacctc	aagtgatcca	cccaccttgg	cctcccagag	tgctgggatt	acaggcatgt	4800
gccactgtgc	ctagccagat	agtagttaaa	acatttgggg	agcatgactg	agcctggtta	4860
gccatatagg	agattaaaaa	tctgatattg	caggagacta	ctcgtgtata	gtctgattct	4920
tggattgggt	tagaatacag	aaagaagctt	tttttttttt	tttttttttg	acatgggagt	4980
ctcgcctctg	cactgaggct	ggagtgtaat	ggtgcgatct	tggctcactg	caacctccac	5040
ctccgaggtt	caagcaattc	tcctgcctca	gccttctgag	tagctgggat	tacaggcatg	5100
tgccaccaca	cccagcta	ttttgtattt	ttagcagaga	tggcatttca	ccatgttggc	5160
caggctgggc	tcgaactcct	gacctcaaat	catctgtccg	cttcggcctc	ccaaaagggt	5220
gggattacag	gcattgagct	ttgcgcccgg	cctccttttc	taatatatga	ttcattttga	5280
acttccacag	cgtggcccat	ggttaacttt	tattcagagt	caaaaatcaa	gaataaatag	5340
tgactacata	cagaccacaca	cacacaccaa	ttcttaaat	ttggggggcc	attttatcag	5400
tatatccatt	gtcagcagca	cagtgttagg	tccgaaaacc	tgcttggctc	tcattggaaag	5460
tattggactg	agagatgcaa	aatgtgat	aaggaggact	ttttcatagc	atctcaaaag	5520
gggactctcta	gctataaaaa	tttatttttg	catcatatt	cattctttta	attataattc	5580
acacttttaa	atgtaattca	gaggaaaaatg	ttatatttta	aatagctact	tgtttcaaat	5640
ttgtttttgt	ataacaaact	gtgctaata	tgaattaat	aattaattta	gacagtgtct	5700
tgctctgtcg	cccagggttg	agtgcagtgg	tgcaatcttg	gctcactgca	acctgtgcct	5760
cccaggttca	agcgattctc	atgcctcagc	ctcctaagta	gctgggacta	caggcatgtg	5820
ccaccatgcc	tggctaattc	tagtatggaa	tttaaaagac	tgcatctctg	tttaattcta	5880
acaaatgtac	tgaataaagt	attagtatat	gagaggtaag	ggaactactg	actgcaacat	5940

aggggcagaa	tgaataaat	gggaaagtga	ggaatcagtc	gaataatddd	atggagcaaa	6000
ggaaaaaaaa	ggtatgccct	tttactcaga	aaagcagacg	gatattaaga	aatgaattaa	6060
cgcacccctgc	tccatgggtct	catttgacct	tgtccttgaa	agatgtgaac	ttgtaataagg	6120
ttgagaaggg	agattgggct	cctaggaatc	catgtgtata	gtgtaggaag	gtggtggcta	6180
gtggagaaga	aggcttagag	ttgggcaagg	aaagctgaga	caggggagggt	agggtggatt	6240
gtggaggccc	ttgaactttt	aggttatgct	ctgaggctgt	ggcaaccaac	tgaaggtttt	6300
taaggagagg	caatggcatg	aactgatcat	tttttttagga	atataatcct	ggctgttttc	6360
tatggaaaag	gaatgctaca	aacacaaacc	aacccaaaaa	ctagt		6405

<210> 65

<211> 4067

<212> DNA

<213> Homo sapiens

<400> 65

ccatgggtgac	cagactgggtt	tcaaactccc	gacctcaggt	gatccgtcca	ccttggcctc	60
ccaaagttct	gggattacag	gcatgagcca	ccacgcctag	cctagtacca	tctttataag	120
gttattgaga	agattgtaat	aattcatgtt	taacattaag	aacacttcct	gatacaaaat	180
aagcttaaaa	accggggtag	ataggtagga	gagaacattc	tagtagagag	aacagccagt	240
gctgtgcctt	tataaatatg	gggcatattt	tgaactagtt	aggattdttt	tttttttttt	300
tttttgagat	ggagtctcgc	tctgtcgcct	aggctggagt	gcagtggcgc	aatctcggct	360
cactgcaagc	tccgcctcct	gggttcacac	cattctcctg	cctcaggctc	ccgagtagct	420
gggactacag	gtgcccacca	ccacaccggg	ctaatttttt	gtagttttag	tagagacggg	480
gtttcaccgt	gttagccagg	atggtcttga	tctcctgacc	tctgtatctg	cccaccttgg	540
cctcccaaaag	tgttgagatt	acaggcgtga	gccaccgtgc	ttggccatta	ggatttctta	600
taaacataaa	tgtctactga	aaaaattatt	attattatta	ttattactga	gacagagttt	660
cactcttggt	gcccaggccg	gagtgacgtg	gcgagatcct	ggctcactgc	aacctctgcc	720
tcttgggttc	aagcagttct	cctgctcagc	cttccgagta	gctgggatta	cggcatgtgc	780
caccatgcct	agctaatttt	tgtatcatta	gtagagatgg	ggtttcacca	gtcagccagg	840
ctgggtctcga	actcctaact	caccgcctc	ggcctcccaa	agtgtctggga	ttgcaggcat	900
gagccaccgc	gtccagccaa	aatatattat	tttttaattgt	gccttccgta	attagttttt	960
gtcacaaaat	gaacagaacg	atagtatgtg	aatctcatta	attagccatt	tgttgtggga	1020
aatgggtgat	atatacagtg	tcctttttaa	aagctcgtaa	gtagcctggg	ttggggaggg	1080
ggccaattca	atagatgatg	ttgatatttt	gactatcaat	tgtgggtcaa	atgcagttta	1140
agttttttgt	ttgtttgttt	ttgttgttgt	ttttgagatg	gggtctcgtc	gtgtcctcca	1200
ggctggagtg	gagtggcaca	gtcttggtct	actgcaacct	ccacttcctg	ggctcaagtg	1260
atcctcccac	cttagcgtcc	cgagtaactg	ggactacata	tgccctccac	taagtccggc	1320
taatttttgt	gttttttagca	gaaacagggt	ctcactatgt	tgcccggact	ggtctcaaac	1380
tcttgagctc	aagtgatcca	cccgcctctg	cctcccagag	tgtctgggatt	acaggcatgt	1440
gccaccacac	ctggcccaggt	taaacttttt	agattcatag	ggctatggga	aatcttttca	1500
tgttagtttt	ggttactaaa	gcacagccac	agctgttagg	gaagggtcat	ctcatacctt	1560
aactgtcaga	gtctgagaat	tttgatttca	ttggtagttt	gaccagcctg	tcaacttatt	1620
cttgaagaaa	tcctcaagat	aaagtattaa	catttttttt	ctacctgatg	atttttaggt	1680
aaagcagcag	ctttctcttt	ttgctataat	aattccatgt	aatgtatagt	ttttcccca	1740
ctcccagct	ttttgagaca	tttgaaacag	agaagctgaa	aaaaaaacta	taatgaactt	1800
ttgtataccc	atacttatat	atttttcctg	aattatgtga	aaattataga	tatcatggca	1860
gtttacccca	aatacttcca	tgcttatctc	ttaaaatcaa	gaatattctt	tttttttttt	1920
tttttttttt	ttaagacgga	gtctcactct	gttgcccagg	ctagagcaat	ggtgcaatct	1980
cagctcactg	caaactacac	ctcccgggtt	gaagtgattc	tcccgcctca	gcctcccaag	2040
tagctgggac	tacaggcacc	tgctatcatg	cccagctaat	tttgtgtttt	tgtagagatg	2100
gggttttcacc	atggttgcca	ggctggtctt	gaactcctga	cctcagggtga	tctgctgcc	2160
tcggcctccc	aaagtgtgtg	gattacaggc	atgagccact	gcatccagcc	aggaatatcc	2220
tcctaatacc	actatcccat	ctaggaaatt	taatactgat	tcaatattga	ttcaatatta	2280
tatcatgtac	agtccatttt	caaatttcgt	taattaaatc	aaaaattagg	aaagagagtg	2340
ttttaatcca	agatccagtc	aaggtttata	tatttcattt	ggttatgatt	ttttaaatct	2400
ttcattatac	tgttattttt	gaattgtcta	ggccacattc	tgatttgtct	gattatttcc	2460
tcagtattag	attcaagtta	aatctttttg	ttaagaatgc	tataaagggg	ccgggtgcag	2520

tggtctcagc	ctctaataccc	agcgcttttg	gaggccgaga	cggttgatc	acctgaggtc	2580
aggagttcaa	gaccagcctg	gccaacatgg	taaaaccccc	tctctattaa	aaatacaaaa	2640
tttaactggg	catggttggt	cacacctgta	gtcccagcta	cttgggaggc	tgaggcagga	2700
gaattgcttg	aacctgggag	gcagagggtta	tagtgagctg	agattgtgcc	actgcactcc	2760
agcctgggtg	acagagcaaaa	actccatctc	aaaaaaaaaa	aaaaaaaaat	attttaaggg	2820
ggggccaggc	acgttggtct	actcttgtag	tcccagctac	ttgggaggct	gaggcaggag	2880
gatcacttga	gcctgagagg	tcaaggttat	agttagctat	gattgtacca	ttgcacccca	2940
gcctgggtga	cagagggaga	ccctttctcc	aaaaaaaagg	aaaaagattg	ctataatggg	3000
gatgttgtgt	acttcctggt	gcatacacatc	agtagacata	aaatgtcagt	ttgtcctatt	3060
atcaataatg	ttaaagtttg	gtaaaatttg	ttaatgtgat	gtttcccagc	tctctgcatt	3120
gtaaatatat	catttccctt	cttaaataga	tatctgggca	tggacttttg	atcgatgca	3180
tatcctgttt	cccatgcata	ttttactcaa	ttatttttagc	tttttgttgt	ttgttgctat	3240
tgttggttgt	tttaagatgg	ggtctcttgc	tctgtagccc	aggctggagt	acagtggcac	3300
gatctcggct	cactgcaccc	tccgcctccc	gggctcaagt	gatcctccta	cctcagcccc	3360
tctagtagct	gggactacag	gtgtgtgcca	tcacacctgg	ataatttttg	tattcttttg	3420
tagacatggg	gtttggccat	gttggccagg	ccagcttgga	attcctgggc	tcaagcagtt	3480
tgccctgcctc	agcctcccaa	agtgtcggga	ttataggcat	tgagtcaactg	tgcttggcct	3540
attttagtat	ttattatcct	ttcttgattc	agttattaca	tctgggggttg	caatatgggtg	3600
attttccaat	tgccatttct	tctgcattta	ttagccacct	tttttttgtt	tttttgtttt	3660
tcagatggga	tcttgctgtg	ttggccaggc	tggagtggct	attcacaggc	ctgatcatag	3720
cgcactacag	ccttcaactc	ctgggctcca	gggatcccag	gggctgggca	tggtggctca	3780
cacctgtaat	cccagcactt	tgggagataa	tttaactttc	tcagaattag	aaggctagta	3840
agaaaaagtg	ccaggacccc	aaacccaagc	ctcttttagcc	tcgagtagct	gaaatgaaca	3900
gggtgcagtc	ccatgcctgg	taattagcta	gcttttaaaa	aatttttatt	taaagaagag	3960
tttccctttt	ttctctcctt	ctttcagtat	caccatggaa	tcatgaattc	tttctatatt	4020
caatgtactg	tgctattttt	ctgttgattt	attggccagt	gggatcc		4067

<210> 66

<211> 3262

<212> DNA

<213> Homo sapiens

<400> 66

gctagctccc	aggcctgttc	cagttgagtg	gtcatgcgca	aagctccttt	gtctgtcgtg	60
tagagtgaat	ctgcgccaca	tagtgggcaa	tttctactgtc	aggattaggg	gtaaaggtgg	120
tcagattcgc	gggtggtgctg	acgacctgac	ggaaatcatc	cacattgttg	agttcatcca	180
gcgtcattaa	ctggatgccg	atattgccga	gcgtcgaggc	ttcaacaggc	ccggcgatca	240
cccgaatacc	gcaggcatcg	gcgcatagct	ggttgagcag	cgtgttctgg	cagcctccgc	300
cgacaatatg	cagttgcgag	aaatcttcac	cgcgagctg	cgccagctca	tgcaacacat	360
cggcatacag	cagcgccaga	ctgtcgaaaa	tgcagcgcgc	cagttcagca	tcactttccg	420
ggatcggttg	cgccgtttcc	cgacacgcag	cctgaatttc	gctgcacatc	gtctcaggat	480
taataaagcg	atcgctcattg	ggattgataa	tgaagcggca	agccggaagt	gcctgtgtcg	540
cggagataag	cgccggaaga	tcgttgattt	gctgtcctcg	aagcactcgc	tgaagcagcc	600
ataagcccat	aatatttttc	agcaccgat	agcgaccttc	cgccccgcct	tcattgggtga	660
tgttggtcgc	cagtgccgtg	tcattggtaa	atggcgctcg	gctttcgaag	cccatcaatg	720
accaggtgcc	agaagagaga	taagcagcac	gtgagccgtt	taacggcgag	gcgataaccg	780
cgtggtgggt	atcatggctg	gcaacggcga	ccactggaat	ctcattaccc	tgcgggcaaa	840
tccagtgacc	tatgacatta	cccggatgcg	tccggcgacc	aaaccaggct	ttgttggtccc	900
cgtccacgc	cagtagcgac	tcgtcccagt	cgtcgctatt	gatattgacc	agttgcgtgg	960
tcgtggcggt	ggtatattcc	cagttcatct	tgccggtcag	gcgataactg	aagtaatccg	1020
gcatacagca	agcgtgagca	atgtgtggaa	taagttcagg	ttgttgctcc	gtcagcgcac	1080
gcaactgata	aagcgtattg	aagggcagaa	actggatgcc	gctacgttga	taaataatcg	1140
gtttgccgag	ttgttggtgt	gcctgcgcca	ttaggccatt	gggtcggtta	tcgcgataag	1200
caacgggcag	gcccacacgc	tgacctgtgt	gggtcgagcag	cacaaagtcc	acgccccagg	1260
tatcaatccc	aatgctatcg	atacgaatcc	cttcctcgca	caccttggtt	aatccaaggc	1320
gaatggcact	ttcaaggcta	tccacatccc	aggtgacata	gccgttctga	ctatgcagcc	1380
cattgttaaa	acgatggatt	tcgcgcagcg	tcaggctgcg	gcattcacgc	tcgtaacgcg	1440

```

ccagcatcac gcgcccactg gatgcgccga gatcgacggc gacacaattg cgaaagggtca 1500
taatgtgata ctgctgaatt tcattacgac cagtctaaaa agcgcctgaa ttcgcgacct 1560
tctcgttact gacaggaaaa tgggccattg gcaaccaggg aaagatgaac gtgatgatgt 1620
tcacaatttg ctgaattgtg gtgatgtgat gctcaccgca tttcctgaaa attcacgctg 1680
tatcttgaaa aatcgacggt ttttacgtgg ttttccgtcg aaaatttaag gtaagaacct 1740
gacctcgtga ttactatttc gccgtgttga cgacatcagg aggccagtat gaccgtatta 1800
catagtgtgg atttttttcc gtctggtaac gcgtccgtgg cgatagaacc ccggtccccg 1860
caggcgggatt ttctgaaca tcatcatgat tttcatgaaa ttgtgattgt cgaacatggc 1920
acgggtattc atgtgtttaa tgggcagccc tataccatca ccggtggcac ggtctgtttc 1980
gtacgcgata atgatcgga tctgtatgaa cataccgata atctgtgtct gaccaatgtg 2040
ctgtatcgct cgccggatcg atttcagttt ctgcgccggc tgaatcagtt gctgccacaa 2100
gagctggatg ggcagtatcc gtctcactgg cgcgttaacc acagcgtatt gcagcagggtg 2160
cgacagctgg ttgcacagat ggaacagcag gaaggggaaa atgatttacc ctgcaccgcc 2220
agtcgcgaga tcttgtttat gcaattactg ctcttgctgc gtaaaagcag tttgcaggag 2280
aacctggaaa acagcgcata acgtctcaac ttgcttctgg cctggctgga ggaccatttt 2340
gccgatgagg tgaattggga tgccgtggcg gatcaatttt ctctttcact gcgtacgcta 2400
catcggcagc ttaagcagca aacgggactg acgcctcagc gatacctgaa ccgcctgcga 2460
ctgatgaaag cccgacatct gctacgccac agcagggcca gcgttactga catcgcttat 2520
cgctgtggat tcagcgacag taaccacttt tcgacgcttt ttcgccgaga gtttaactgg 2580
tcaccgcgtg atattcgcca gggacgggat ggctttctgc aataacgcga atcttctcaa 2640
cgtatttgta cgccatattg cgaataatca acttcgttct ctggccgagg tagccacggg 2700
ggcgcatcag ttaaaaacttc tcaaagatga tttttttgcc agcgaccagc aggcagtcgc 2760
tgtggctgac cgttatccgc aagatgtctt tgctgaacat acacatgatt tttgtgagct 2820
ggtgattgtc tggcgcggtg atggcctgca tgtactcaac gatcgccctt atcgcattac 2880
ccgtggcgat ctcttttaca ttcattgctg cgataaacac tcctacgctt ccgttaacga 2940
tctggttttg cagaatatta tttattgccc ggagcgtctg aagctgaatc ttgactggca 3000
gggggcgatt ccgggattta acgccagcgc agggcaacca cactggcgct taggtagcat 3060
ggggatggcg caggcgcggc aggttatcgg tcagcttgag catgaaagta gtcagcatgt 3120
gccgtttgct aacgaaatgg ctgagttgct gttcgggcag ttggtgatgt tgctgaatcg 3180
ccatcgttac accagtgatt cgttgccgcc aacatccagc gaaacgttgc tggataagct 3240
gattaccgcg ctggcggcta gc 3262

```

<210> 67

<211> 13927

<212> DNA

<213> Homo sapiens

<220>

<221> modified_base

<222> (8366)

<223> a, t, c, g, other or unknown

<220>

<221> modified_base

<222> (8409)

<223> a, t, c, g, other or unknown

<220>

<221> modified_base

<222> (8443)

<223> a, t, c, g, other or unknown

<220>

<221> modified_base

<222> (8445)

<223> a, t, c, g, other or unknown

<220>
 <221> modified_base
 <222> (8476)
 <223> a, t, c, g, other or unknown

<220>
 <221> modified_base
 <222> (8478)
 <223> a, t, c, g, other or unknown

<220>
 <221> modified_base
 <222> (8482)
 <223> a, t, c, g, other or unknown

<400> 67
 actagtgggt aggcctggcg gccgctggc cgtcgacatt taggtgacac tatagaagga 60
 tcatctgtgg aatgttgctt gtagggcca ggtctggagt atgctgtgtg tccagagcaa 120
 cctagattga agaaaagacc tcaggcacag aagctgtaaa agaggccttg aaaagcagct 180
 tgaaaagggtg gatttatagga agtaaaacaa tatgaagtct ataatacttt taaaagagtt 240
 attttctgac actagtccctc aaaaatattc ctggagtcga ttctttgcag gaaaagtggc 300
 gacttgctct agacaaagcc tacgtgctga ttccatgtga ccttgggggt gggtaactaaa 360
 ttcgtaacag cttgtgggtg aaaaatagggt ttatatgttg aatgtgttcc ttaattactg 420
 taattctgtt tttatgtgca tggtttctgt gaaacaaatt agaagtcgaa cacactatct 480
 tagctcagtt gaccttgata caagaactgc tgtgttaatt atgcccagtc ttccagtagt 540
 acaatcctct ttttttttct tgtgaatgtt agtaaaatct actgggtatct tatgtatata 600
 ttgcacagct atacactgtt tttcttttta tgctcttgaa aatggaattt aatcagagtt 660
 gtacatgaca catggaggcc attcatttga gtccttggtg tagggcagta tagaggatcc 720
 ataagacatg gtccaaagcac tttgaggata tatgatgttg ggggagcatc agagatttgt 780
 tgacacattt aagtaaggac ttgaatgtcg tactttgact gttggcaaga aataggctct 840
 tggctgggtc cagtggccca cacttgtaat cctagcactt tgggaggcca aaacaggaga 900
 attgcttcag cccaggaggt cgagaccagc tggagcaacc tagggagacc ctgtctctac 960
 aaaaaaataa acaaatagc cgtgcatggt ggcacgtgcc tgtgggtccc gtcactcagg 1020
 aggctgaggt gggaggatca cttgagccca gaggctgag gatgcgtgag ctgtaatctc 1080
 accactgcac tccagcctag ggcgacagag caagaccctg tctctaaaag agaaaagaaa 1140
 cagaattctt acattgtgct ttagtctatc agttagttaa cttttctttt tttgtgtgtg 1200
 ctttttatct tttgtggaga tggggtctca ctatgttgcc caggctagtc tcgaacgcgt 1260
 aggtcagat gatcctccca ccttggcctc cttaaagtgt gagattacag gcatgagcca 1320
 ctgaacctgg gcctgggtgtg tttttcttac ctgggttaa agatcaaag gaattatct 1380
 atacctactg aatattgaga gtttaaaaca gggtaaaata cgtatttaag aaaaattaac 1440
 gtatgtgtaa gtgtttcact cctttaattc tgtaaaactag gtattacctc aatttttagag 1500
 acgacacaga cgtgcagtc taccgaaggt cgtaaaaaac acctaaatac agtatttctt 1560
 aacttttttt ttttttttga aacggagcct cgctctgttg cccagggttg ggtgcagtgg 1620
 tgcaatctca ggtcattgca acctctgcct tctggtttca agcagatctc ttgcctcagc 1680
 ctcccaagta gctgggggtta cagggtgccc ccaccagcc cagctaattt ttgtaaatac 1740
 agtattttta aattgttctt tcatatgttt agaattataa gccaggcatg gtgcccattg 1800
 actttgggag ggcaaggaaa gaggattgct tgagccaaga gtctcagtc agcctaggca 1860
 acatggcaaa gcccatctc tgcaaaaaaa attaaaattt ggcttggcat ggtagtgcac 1920
 acctataggg ccaattactt gggaggcaga ggtgagaggt tcaacttgagc ccaggagttg 1980
 caggctgcag taagccatga ttgagccact gtactccagc ctgggtgaca gaccgtgacg 2040
 ctgtctgggg aaaacaaatg gattagtgt tgatagaagc agttattcta aaagcagctt 2100
 gggggcgggt gcagtggctc acacgtgtaa tcctagcaat ttgggatgcc gaggcgggtg 2160
 gatcacctga ggtaaggatc ctgttcaagg ccagcctggc caacatgggtg aaaccctgtc 2220
 tctagtaaaa tacaaaaatc agccaggcat gatggcgggt gcctgtaatc ctactactg 2280
 gggaggctga gacaggagaa tcgcttgaa ctaggagaca gcggttgacg tgagccgaga 2340
 tcgtgccact gcactccagc ctgggcagct gagctagact gtctcaaaaa aataaataaa 2400
 taaaataaaa gcagcttgggt tttgaagata taagttagga aaatctatta gtttcagaag 2460
 ctttaaaagt ctgggagagaa ggaatattga agaagaggaa aaggatttca tgtgaattga 2520

ggaagttaac	tcattgggtgt	agtttttccct	ttctttttttt	tttttttttac	taaggaaaaag	2580
agaacaaaagc	gataaaaatct	gagtagtctt	tcagtcattc	ttggtagaat	tggttagctaa	2640
aaggctgagt	gaaatatggc	ttaaaagctt	tattggctgg	gcgcgggtggc	tcaccctgt	2700
aatcccagca	ctttgggtgg	cttaggtggg	tggataacct	gaggtcagga	gtttgagaac	2760
agcctgacca	acatgggtgaa	accctgtctc	tactagacat	acaaaattag	ccaggtgtgg	2820
tgatgcatgc	ctgtaatcct	agatacgtgg	caggctgagg	caggagaatt	acttgaaccc	2880
aggaggcgga	ggttgcagtg	agctgagatc	ctaccattgc	actccagcct	gggcaacaag	2940
agcaaaaactc	cgtctcaaaa	aaaaaaaaagc	tttatcattt	atTTTTTggc	cctgtcttat	3000
ggtgcagagg	cttaaaagtt	ttttgacagc	aaatTTTcta	gaggctagga	gtgtttatta	3060
taaccatggt	tttgagcggg	gaggactacc	tcagagggca	tgcttgtgt	catcattgtt	3120
cttattgctg	agctaccgaa	acctagaatc	tgactcacac	aatatgacac	ttatttccgt	3180
tttcttggta	gagtttgtgt	ggtcattcat	cttttagatc	ttttagaaac	tacagtccctc	3240
ctagttccca	cttttatatt	tatttattta	tttatttttg	agatggagtc	ttgtctgtt	3300
gcccaggctg	gagtgcagtg	gtgcaatctc	ggctcactgc	aacctctgcc	tcccagggttc	3360
aagcaattct	ccgcctcag	cctcccaagt	agctgggatt	acaggtgctg	gccaccatgc	3420
ctcgctaact	tttgtatttt	ttgtagagac	ggggtttcac	cacgttggcc	aggctggctg	3480
caaactcctg	acctcaagtg	atcaaccccc	ctcagcctcc	caaagtgctg	ggattacagg	3540
cgtgagtgac	cgtgcccagc	catcagttcc	cacttttaaa	tgagagggttc	tttgtttttg	3600
tggggttttt	gttgttgttg	ttgttgttgt	tgttgttgct	gttgttactt	gagacagggg	3660
cttagtctgt	catccaggat	ggagtgcagt	ggcacaatct	tggctaactg	cagcttgagc	3720
ctccctgggc	tcaggtgatc	ttcctaccta	agccccctga	gtagctggga	gtgcaggcac	3780
acaccaccat	gcctagctaa	cttttgtatt	ttttgtggag	atgagatttc	accatgttgc	3840
ccaggtcggg	ctcaaatcc	tgtactccag	cgatccctct	gcctgagctt	cccaagtgc	3900
tgggattata	agtgtgagtc	accgagccag	gtcataaaga	cagttttttt	ttgttttgag	3960
atggagtttt	gctcttttgt	acccaggctg	gagtacagtg	gtgtgatctt	ggctcactgc	4020
aacctccacc	tctcgggttc	aagcaattct	cctgtcttac	ttagcctccc	gagttagctg	4080
gattacaggc	gtgccccacc	acgctgcact	gattttttat	atTTTTaaca	gagatggggg	4140
ttcaccatgt	tggacaggct	ggctgcgaac	tcttgacctc	aggatgatctg	cccacctcag	4200
cctoccaaag	tactgggatt	acagatgtga	gccactgtgc	ctggccaata	aagagaattt	4260
taaacaatgc	ctacagtgtg	atttttagtg	gggtggccaca	tacatgtagg	tgtgcacatg	4320
tatttccatg	aaaatgcctt	cctgccttta	gccttgacaa	tgctgcataat	agggataaag	4380
catttaaatg	atggtgtctg	ggctaagagt	gtgaactctg	gagccaaacc	ctccaaaatt	4440
gcatectgaa	tctgccacta	gctagctctg	gagccatgaa	taacttattt	aacctctctg	4500
tgatggttta	tctatctgta	aaatgggggt	ctggctcatt	ctggctcatt	gagtgtcttg	4560
gagcatcaaa	taggttagta	ggctcgggtg	gggtggctcac	acctgtaatc	ccagcacttt	4620
gggaagctga	ggcatgagga	tggcttgagc	ccaggagttt	gagaccagcc	tgggcaacat	4680
agtgagactc	ccatctctac	aaaaaagaaa	aataattagc	cgggtgtagt	ggcatgaacc	4740
tgtggtccca	tctactccag	aggctgaggt	gggaggatca	ctggagccca	ggaggttgag	4800
tctgtagtga	attgtgggtg	taccactgta	ctccagctctg	ggcctcagag	ttagatcctg	4860
tctcaggaaa	aaaaaagggt	cgtagacaga	agctacttat	ggctcagagt	aagtgttctg	4920
tgaatggttg	ctgtttttta	aatcttgcac	ttaatctctc	tttgggttaga	agtatacttc	4980
tttgccttga	ttaccatttg	catgtggaga	gatgttccct	ctagaaccat	gtctccttgt	5040
cacatgatta	tgtacagtgt	gagctttatt	aatactctgt	cagcatttga	ggttggaaca	5100
taaatgcgtg	gctgtaccca	gtggaatcca	gcaagagaga	gaactaagca	ccgtagcaac	5160
tggtgtctatt	tgtgtactga	gcaacagctg	tgcgagacag	atttattttt	taatcctgat	5220
ctcactgata	gcctgggatg	tggccttgcc	acatctcaaa	ggagtagatt	ggttgagata	5280
tccagtcttt	gaggagattt	catgaccaca	tgcataaaag	attctgtttc	atttcaata	5340
tgaggagcta	aagctttgtg	tgtatgagtg	agggagaaaag	attaagcttt	aaagcattca	5400
tagtcagtcc	ctgaaatata	gtgtgactgg	attaatgaca	tgataaatca	cttttaattg	5460
gggtgggtgag	acttcatgca	tttcagtcaa	aaaagtaatt	ttgtctgtaat	gtggttcatt	5520
tccaaatttt	ggctgctaac	ttacctaagga	tggataaaca	ttatcacaga	gtatttactg	5580
agcactact	ttataccagg	gtcttttctg	ataactggta	acatgcagtt	aattacactc	5640
caaaatgact	tagtctgtga	ttccactata	tactacatta	cataaataca	cacacactaa	5700
tcattttacat	acttgtcaac	cttagatttc	agaaataaca	ctgtatttgt	aatgaatgct	5760
tcattaccaaa	atgcttttct	gaagtacata	gtaagatctt	taaaaagagc	tttcatggcc	5820
aggcgcggtg	gctcacgctt	gtaatcccag	cactttggga	ggccgaggcg	ggcggatcac	5880
aaggtcagga	gatcaagacc	atcctggcta	acacggtgaa	accccgctctc	tactaaaaat	5940
acaaaaaaat	tagctgggag	tgggtggcg	cgcctgtagt	cctagctact	caggaggctg	6000

aggcaggaga	atggcggtgaa	cctggggaggt	ggagccttgca	gtgagccgag	atcgtgccac	6060
tccccttcag	ctagggcgac	agagggagac	tctgtctcaa	aaaaaaaaaa	aaaaaaaaaa	6120
aagctgcttt	caaatagtgg	ttggattcat	tcaataactt	tctaattttc	atttctcttt	6180
tttttcttga	gatgaagtct	tactctgtca	cccaggctgg	agtgcagtgc	attaatatca	6240
gctcagtgca	acctctgcct	cccgggttca	agtgattctc	ctgcctcaac	ctccccagta	6300
gctgggatta	taggcacaca	ccactatttc	tggctaattt	ttgtgttttt	ggtagagatg	6360
gggtttcacc	atgttcgcca	ggctagtctc	gaattcctga	cctcaagtga	tacacctgcc	6420
ttggcctccc	aaagtgtcgg	gattacaagt	gggagccacc	gcgcccagct	ccatttctga	6480
tgtgttccaa	tatttccagg	cttaacgggt	gccttgaaat	agtaatgtgg	gccagggtgca	6540
gtggctcacg	cctgtaatcc	cagcagttag	ggaggcggag	atgcgcagat	cacctgaggt	6600
caggagttcg	agaccagcct	ggccaacatg	gtgaaaccct	gtctctacta	aaaataaaaa	6660
aattagccag	ttgtagtggg	ggatgccagt	aatcccagct	actcaggagg	ctgaggcggg	6720
agaatttctt	gaacccggga	tgaggtgggt	gcagtgaacc	gagatcacac	cactgcactc	6780
cagcttgggg	aatagagcaa	gactctgtct	tcaaaaagaa	aagaaataga	aatgtcgttc	6840
atttccaaat	tttggctggg	aacttaccta	aggaggataa	acattgtcac	agaatattta	6900
ctgagcatct	actttatacc	agggctgtgt	ctgaatactg	gtaacacgca	gttaatgtcg	6960
ttggctcgtt	ttttcatggt	ccatgtataa	attacctctt	aaaactatga	ttgttttcat	7020
tcattcattc	atttttgaga	tcgggtctca	aaataggctg	gggtgcagtg	gctcgataac	7080
agctaactac	atcctcaaac	ctccaggctc	aagccatcct	ccgacctcag	cttccctaagt	7140
agctgggact	gcaggcatgt	gccaccatgc	ccagctagtt	gttgttgttt	tttttttttt	7200
tggtatttgt	tgtagagaca	gggtttcacc	atgttgccca	gggtgggtctt	gaactcctga	7260
cctctagtga	tccaccagcg	tcggactctc	aaaatgtcga	aattacaggc	atgagccact	7320
gagcccagcc	tattaatttt	tgattgcctt	attcagattt	agtggatatga	atttactgat	7380
tgggatgttt	tgaacacaca	gaataacatg	tttaactaaa	gaacttgtaa	ttgagtgact	7440
tataaaatga	aacattttta	tcttctaggt	attattaacc	caaagaatcc	aaaggaagct	7500
ccaaagtcct	tcagcttcga	ctattcctac	tggtctcata	cctcagtga	taccctcatg	7560
ccacagcact	gccagctcct	gcctcctttc	ctctttcctt	gccgatttgt	cttttctctt	7620
agctgagcag	atccaagttt	tgcttcttaa	ctgttgtgta	gcatgagttc	attcctttgat	7680
acagtgtatg	agtattttca	ttcataaagt	atttgggttg	atggaaagtt	tatgtacaca	7740
tatacataaa	tatatacaca	tatatacata	cagaacatat	ttagtttaca	ccaaatttat	7800
actgaatgta	cactaaattt	atactgattt	agacatttct	tgaggattta	tttatcagta	7860
tcttaggact	ctcattacca	acattattgc	ccattgatct	taggaaatgc	caaataataa	7920
taattattat	tattattatt	atttttcttc	tgagacggag	tctcactctg	tcgcccaggc	7980
tggagtcacg	tggtgccatc	ttggctcact	gcaacctccg	cctccgaggt	tcaagcgatt	8040
ctcccgcctc	agcctccga	gtagctggga	ttacaggcgc	gtggcactat	gcccagctaa	8100
tttttgtatt	tttagtagag	acaggatttg	accatgttgg	ccaggctggg	ctcgagcttc	8160
tgaccttaag	tgatccacct	gtgtttgcct	cccaaagtgc	tgggattaca	gggtgtgagc	8220
actgtgcctg	gctggaaatg	ccaaattaaa	attgtcttagg	gtactgttaa	ttttaagttg	8280
aattttgagg	gaatggccag	caagattggg	aatgaccaca	gagaaattgk	tttttttttg	8340
gtttgtttgt	tgttttttgg	gtaggntgat	tttgaactcc	tgacctcctg	atccacctgc	8400
ctcgacctnt	caaaatgttg	ggattaaagg	agtgaacccc	cgngnctggc	caattttttt	8460
tttttaattg	tagtananca	angtgggttt	tgaacatttt	gaaagatgat	accgtgcctc	8520
tactaaaaat	tccaaaaaaa	aaaaaaatta	gggtgggcttg	gtggcggggtg	cctgtaatcc	8580
cagctacttg	ggaggctgag	gcagggtgaa	tgcttgaacc	cagggagggtg	gaggttgacg	8640
tgagccgaga	tcgcaccact	gcactccagc	ctgggtgatg	gaacatgact	gtgtctcaaa	8700
aaaaaaaaaa	ggaaagaggc	tgcatatcca	caagggaaac	aaaagattac	cagtattacg	8760
aaaatgcaga	gtagggccct	tcctggaccc	ttactcagtg	tggaaaccca	aatgttgctg	8820
cttcttaggg	attgttcata	gagtttactt	ctgcatcatt	catctctttg	ttacatgttt	8880
ttggttttgt	ttttcctggt	ttgtattttt	ttttaaagac	tgagtctcgc	tctgttgcc	8940
aggttgagg	gcagtggcat	gatctcagct	cactgcaacc	tacacctcct	gggttcaagc	9000
agtctctctg	cttcagcctc	ctgagtatct	gagattacag	gcagggtgcca	ccacaccggg	9060
ctgatttttt	taattttttg	tagagatggg	gtttcgtctg	gttggccagg	ctggctcctga	9120
attcctatcc	tcaagtgate	tgcccgccct	ggcctcccag	agtgatggga	ttacaggcat	9180
gagccactgt	gccctgccct	ggggaatcga	tgttttaaac	tattgacaaa	gcctaattgt	9240
caagggaagg	gactgagaag	gggattggaa	atgctgtttc	ctgaaagctg	tgtttattga	9300
gaaatagtcc	cagtagctgg	agtgaagttc	aagaagtatt	tttatatgtg	gacttgacct	9360
ttggctcttt	attctcattt	tccacttaag	aaaactcttg	ctgtgtgaat	gaaagagtga	9420
tacttttaag	gttatagaaa	gtgaaatgta	atcatgccag	ataattttat	atagatattt	9480

ttatgtatgg	ctgacctgga	tgactctaac	agtgcattgt	tttgtgagtg	tgtgtgtgtg	9540
catgtgctgt	tattttaatga	gaaaagttaa	cttgtgtata	ggaggcttaa	aaaatgtgta	9600
gggaatttta	ggtgactggt	ctgattccag	acacttttat	tatggaagca	atcaagtaag	9660
tataggaaga	aatattaata	aaaggttatt	tatttctcct	tttactcttt	acagcccga	9720
gacccctggt	ttgcatctca	aaaccgtgtg	tacaatgaca	ttggcaagga	aatgctctta	9780
cacgcctttg	agggatataa	tgtctgtatt	tttgccatg	ggcagactgg	tgctggaaaa	9840
tcttatacaa	tgatgggtaa	acaagaagaa	agccaggctg	gcatcattcc	acaggtgaaa	9900
aacaaaacaa	aacaaaaatc	ttctcttcat	tattagtgtt	agtcttaa	tgctttaaca	9960
gttattttta	tttggcgaac	atttatgcgg	ggattgtttt	atgtcaggca	caaagatgaa	10020
caaccattta	ttttccctca	gaggagctca	caattgaatg	ggaaggattg	acatgtacac	10080
atgtctgtca	ttaaagggtg	gaaagtca	gttttgta	gattttgcca	tatatccaat	10140
gccatattat	tttgtcattt	gaaaagtgtt	accagcttgt	taaagctctg	ttctaagtcc	10200
tggagatggg	gggatattgt	tgatctgatt	ttttttcaaa	ttccatgcat	agattacctc	10260
tgaagaatgt	gattattttt	ggtttttttg	atagccttat	tcggagatac	tttcatttta	10320
ttttccta	tttaactat	gactttaaac	ttcaa	ctgagattct	ccctcttttt	10380
ttttttttt	agaacagtta	gtattattgg	gtttgatcct	ttattgtttg	ggaatgaaga	10440
agcgttctga	catagatatt	tattttattt	tattttcatt	attcgtttca	cttaggattt	10500
aatggtgaaa	gacataagta	tttaaaaaga	acttcattat	ttacttattt	atttgagaca	10560
gggtctcact	ctgttgccca	tgtctggagt	cagtggtgtg	atcttggtct	actgaggcct	10620
tgtcctccca	ggtctcaagt	atcctcctgc	cttagcctcc	agagtagctg	ggactaaagc	10680
catgtgccac	cacacctagc	tcatttttaa	attaaaaaaa	aaaaaaattt	tttttttttt	10740
ttgaggtgga	gtctctctct	gttgcccagg	ctggagtgc	atggcgccat	cttggtcac	10800
tgcaacctcc	gctcctctgg	ttcaagtgat	tctcctgcct	cagcctccca	agtagctggg	10860
acaataggca	cccaccacta	tgcctggcta	atttttgtat	tttttagtaga	ggcggggttt	10920
caccatgttg	gtcctggtct	ggatctcctg	acctcaggca	atccgcccac	ctccgctcc	10980
caaagtgcag	ggattgcagg	catgagtcac	catgcccggc	ctttaaaatt	tttttttttag	11040
agacagggtc	tcaccatggt	gtccaggctg	gtctcgaatg	gacctgggct	ccatcctggg	11100
cttgggatga	tctgcctgcc	tcgacttcca	gaagtactgg	gattacaggc	atgagccatt	11160
gtcgggggcc	taaaaactta	agaaaaaaa	aagattaa	gagaagattg	tatttaaaat	11220
tttcttttta	tagtcatgca	tcacttaagg	gtgggggtac	attttgagaa	atgcatcatt	11280
agtcgttagg	tgttttgtc	attgtacaga	tatcatagag	tgtacttaca	caaaccctgg	11340
aagggtgtaa	ctgctccaca	cctagactgc	gttgtatagc	ctggtgctcc	aaggctataa	11400
acttgtgtag	catgctactg	tactgaatac	tacaggcaat	tataatagga	tggtaatgat	11460
ttgtatatct	aaacatagaa	aagtacatta	ataaatgat	ataaaagatt	tgaaatggca	11520
cctgcgcata	gtgctcttac	actggagctt	gcagggtctg	aagttgctct	gggtgagtc	11580
gtgagcaagt	ggtgagtaaa	tgtgaaggcc	taggacattg	ctttgcagta	ttgtagactt	11640
tataaatgct	gcacacttag	gctacactaa	atttagtttt	aaaaacagtt	tcctttcaat	11700
aattaacctt	agttaaatta	ctataacttt	tttactttat	aaactttaaa	attttttaaa	11760
ctttctgctc	ctttttataat	aacctttagt	ttaaaacaca	aacagcccca	gcatggtggc	11820
tcttcctgtg	aatcccatca	ctttgggagg	ccaaggcggg	tggatcactg	gaggtcagga	11880
gttcgagacc	agcctgacca	acatggtgaa	accccggtgc	tactaaaaat	acaaaaaaat	11940
gagccaggca	tgggtggcgca	tgcctgta	cccagctact	tgggaggctg	aggcaggaga	12000
attgcttgaa	cccaggagac	ggaggttgca	gtgagctgag	atcgcgccat	tgcactctag	12060
catgagcaac	aagagtga	ctcggtctca	aaaaaaaaaa	aaagaaacca	cacacacact	12120
ttgtacagct	gtacaaaaat	attttctttc	ttcatatctt	tattctataa	gcttttttgt	12180
attttttaat	tttttttttc	tttcttgaga	cagagtcttg	ctttgtcacc	caggctggag	12240
tacagtggcg	ccctatcagc	tcactgcaac	ctccgcctcc	tgggttcaat	taattcttgt	12300
gccttagcct	cctgagtagc	tgggactaca	ggcacgtacc	accacgtctg	gctaattttt	12360
gtatttttag	tagagacggg	gtttcacaat	gttgccagg	ctgggtctga	actcctggcc	12420
tcaagtgatc	tgcctgcctt	ggcctcccaa	agtgtctgag	tttacaggcg	tgagccactg	12480
cacctggcca	aatttttttt	tttttttttt	agacagagtt	tcactcctct	tgcccaggct	12540
ggaatgcagt	ggcacgatct	tggctcactg	caacctccgc	ctcctgggtt	caagcgattc	12600
tctgcctca	gcctccagaa	tagctgggac	tatttttgta	tttttagtag	agatgggggt	12660
tcaccatggt	ggccaagatg	ttctcgatct	cctgaccttg	tgatctgcct	gcctcgctct	12720
cccaaagtgc	tgggattaca	ggcatgagcc	accttgccca	gccccaaattt	ttaatttttg	12780
aaaaaaaaatt	taaacttttt	tgttaaaaac	ttaggcacac	atttatttagc	ctaggcctac	12840
acaggggtcag	gatcatcaag	atatcactag	gtgacaggaa	ttttccagct	ttcttataat	12900
cttatgggga	tcactatcat	atatgcagtc	catcgttgac	cgaatcatgg	ttatgcagcg	12960

catgactgac	tttattcaaa	gcattaatcg	tatcttgatg	tttatgacat	aatatatattt	13020
gagatggagc	aagaaaggac	gtctggctaa	ttcattgagc	acgcgtggat	gacttagtac	13080
tcctctcatt	tgtgctcttc	atgcctctct	cattctactt	ccctagttat	gtgaagaact	13140
ttttgagaaa	atcaatgaca	actgtaatga	agaaatgtct	tactctgtag	aggtgagtac	13200
agcogtgagt	tgacaccgta	agcccttggt	ttccattctc	tcaagcatca	cttaaatggc	13260
tcctaaattat	gactgtggta	cacatcactt	caccattcct	tcatttttgt	cctttcaggc	13320
tattttctggg	ttttgggtat	aatgaatagt	gtcctgcttt	aatctttttt	ttggggggtg	13380
cgcggtgggg	acaggggtctc	actctgttgc	ccaggccctg	gagtgcagtg	gcgtgatcac	13440
agctcactgc	agccttgacc	ttctgggcca	aagcgatctt	acccctcag	cttctcaagt	13500
agctgggaca	acaggtgtgt	gccaccacca	cccctagata	attgattttt	ttgtagagat	13560
ggagtttccc	tatgttgccc	aggttgggtg	tgaactcttg	ggctcaagca	atcttgcttc	13620
ctccacctct	gaaagtgtctg	gggttgagtg	gtgaatcact	gagcccagcc	acaattaaat	13680
ctttgttcat	aagtctgtgc	atttatttgc	agttattatc	ttttgtatgt	ttcttggttt	13740
ttaaataata	catttgaaat	gccaaatgcc	tttttggaat	gtaatgctgg	gtaacagttt	13800
tcagtcacac	taggaggggtg	taagcaccca	ttgtgcccct	gccaacattt	ttctattttt	13860
taatctttgc	taatttgata	atgtaagtat	tctcttactt	aaattttgaa	tttctttgat	13920
tactagt						13927

<210> 68

<211> 34488

<212> DNA

<213> Homo sapiens

<400> 68

tctagattcc	tttatgtaat	gtgtaccaga	ctatccattt	gaactcagga	aattagtttt	60
aaatcgcaaa	tatgtcacta	gtatttttgt	tagaattctg	ttttagatca	gcaatgaagt	120
ttatttggaa	cgttaaaccct	gttatcactg	agcaattaat	tacttcatag	aaatgttatt	180
tgaaattttt	agtttttgtt	catgggttgc	tctggattag	tgtcgtggca	gtaataaag	240
aaacgcacca	ttcaagccta	ccttcagata	agattcacct	ttgaatggcc	ccctcctcct	300
gtaaaatgct	ggagtgtccc	gtgctgccta	tgaacatatg	aaggggaaaa	gttcaattcc	360
tatgaagtcc	aagaactaca	cttcagagaa	gtattgtttt	acaatgttgt	attaaaaatt	420
atcttaaaaa	atctccgtga	tgtgectatc	cagtggctta	ttcagaagtt	ctcttaagt	480
agtaaaatgg	attcatatag	gaatagaata	tggtagaata	tgggttagtt	tagtaaagca	540
ttttttttta	gtgtaaagtt	aaacttatat	tccttgaagt	tctaataaga	ttttcaaggc	600
ctcttctagt	tttaattcttc	ttattgatta	gagtcagagt	ttagatgaat	accgtttgta	660
aaaatgatac	cgtattctaa	gtattaactt	ttccatctcc	ccaaatgcc	aaaactgtct	720
tgttccctct	ctgtgtcact	gctgaacctg	aactttgacc	cttctcgtat	tttccctcct	780
gcttaccttc	agttgatcca	ttgatcgatg	attactctgg	aagtggagc	aaatgtgtgt	840
tttcacata	ttggttattt	ccagtactct	gacttgcata	tctgcctctg	ctggatcagc	900
cttaaaataa	gctttgcatg	ctggcaatcc	ttacagggaa	atcccagaca	gagcatagta	960
tagaatcaga	aatgatacta	tttttgccct	tcttcattta	gcaaactaat	ctttgtgtaa	1020
tttcagtttg	tggcttgagt	gaagttgaaa	ggcttaagaa	tctcttgctg	cttctactct	1080
tcagtttttc	ccattgtgat	tcaattaaat	ccaaaaatca	tagatgatag	caactgacac	1140
ttactgattt	tgcataatat	gccaggccct	attctaggca	ccttgaatat	attgtccctt	1200
ttaattctgt	taatggctct	gaaaatatct	tattatgttc	cttttacc	taataatttt	1260
tagtcagcaa	aactatctat	gatttaagag	ctctgtagat	gttgggctaa	gactcatgag	1320
tgcttgtgct	aagttgcttt	tctccataac	ttgggcctcg	gaatgattag	ataaacgttt	1380
tttccctttt	tttttttttt	tttttttttt	taaacagctct	cactcttgct	acccaagctg	1440
gagtgtaatg	acatgatcgt	ggccactgt	aaccttgaac	tcttgggctc	aagtgtatct	1500
tcctagctcag	cctcctgagt	atctgagact	acagttgttc	gctgccacac	ctggctaatt	1560
tttaattttt	ttattttagt	agggtgaggg	tctcgctgtg	ttcccaggc	tggctgggaa	1620
cccctgacct	caagcagtc	tcctgcctcg	gccttccaaa	gtgctaggat	tatagatgtc	1680
agccaccaca	cccaaccatt	cctcttttca	taagtcacaa	attaaaataa	cttaggtgtc	1740
taaaatgact	caaacatttt	taaagagtca	catgaacctc	attattctct	ccacatatat	1800
cttaagttgg	tgaggaaatt	atttcttacc	cttttaaggt	aattcatcaa	gaaattgtta	1860
tcttagaaga	aaaatgtctt	gattttgggg	cataattttt	gatttgtact	gagttatttc	1920
tttttttttc	ttttttcttt	tcttttttga	gatggagtct	tgctttgtcg	ctaggctgga	1980

gttcagtgge	ggaatctcgg	ctcactgcaa	cttccgctgc	ctgggttcaa	gcgattttctc	2040
ctgcctcagc	ctcccagagta	gctgggacta	taggtgcgca	ccaccacgcc	cagcttatttt	2100
ttatatTTTT	aatagagatg	gggtttcatc	atgttagcca	ggatgggtctc	aatctcttga	2160
cctcgtgac	ctcctgcctt	ggcctcccaa	agtgcctggca	ttacaggtgt	gagccatcaa	2220
gcccagccac	ctgagttgct	tatttctaca	gtaaggcatg	taatgaggct	tggcagacag	2280
tgagaaaatg	cataggagaa	accaaacata	gccctggctg	tggttatgag	gttagggctt	2340
aaaggcacta	taatgtcctg	atacagaagt	gactcttgga	ctgcaacagc	tctgtctgag	2400
atttccaaag	ctcaacgata	ctgggttgga	aaagggtgcct	tcttcttttt	gcttttgtgc	2460
tcaagggtgt	gctgctgcc	gcttgttgcc	tacctctttt	cttagcagct	gcggcatttc	2520
ctgaaagacc	atgcatgact	aagtttta	tctgtattcc	tgagggaag	cagccctgac	2580
tccttctcag	ttccattttt	gatctatttc	tctttattcc	ttttagggt	tgcatgtgac	2640
cattggacct	aaactctgtc	catcctggtc	ttttctccca	atggctaatt	ttttgtctta	2700
atccctatcc	cccttttaaa	agatgcctct	ttgtgttg	cctatgttct	gtatttgcag	2760
atgggtggtt	tcaaaactgtc	ttgaagcaac	cactggcttt	aagggagtta	aaaaactggc	2820
tttaattaaa	tagtagagat	gagtaagccc	agggagaact	aatagtattt	ttttccagct	2880
atgtgtattg	actcatctcc	tttgaggaaa	actgactagt	tttgatatga	atttttagttt	2940
ctcaggttta	aaaaataagct	aattttaaag	ttggattgca	ccaatactta	agattttacct	3000
ttggtatctt	tttgcaaagg	atgactaatg	aaagaaagta	atgaaagaaa	gtacaaacag	3060
caaattaatt	aattttgttg	tttgtggctt	aatttttttt	tcttttacca	atactgagtg	3120
taaaagcaaa	attaacaggtt	ctattaaaga	cttagtaaat	ggaagtatgt	tcctaaaact	3180
tgcattttat	actaggaagc	aggcttagca	gtgacccatg	gttgtactgt	taggctaatt	3240
aagggcctta	aattagcaaa	taatcagcct	tattttttgc	ttgctctgac	agaagaatgg	3300
aacctgcact	aaaactcatt	aatctgtctaa	ttgttcttcc	ctgttgaggc	aatcaattag	3360
tcctgagttt	ttaaccagga	cttatacaaaa	attcctctca	tttctataat	tacctctttt	3420
ttattttaaga	catattaaaa	atccttttag	catgttgaaa	tgttgccata	caaagcatac	3480
tactcagtg	acaaattttg	ttttaactgt	aacattttct	tggaaatttt	tgctgaatta	3540
cacgtaacac	tgagccagac	caatatggat	tattattgat	aaataaatga	tcattgtttt	3600
cccttactgt	tacaaactac	tggaaaagt	gacattgtag	actaggaaca	3660	
ctagaaaagc	taaatggaag	gtagtttggc	ttttttagg	agagtgccta	agcagtatcc	3720
tttgaggctc	tggtttatcc	ccctgcgaga	tacagcgta	acctacattg	gaatctttta	3780
gtttgtaaat	gcagaaatga	ttctgaacct	gtaggatacc	actattaaag	acagacatgt	3840
tttagaactg	ccatctagaa	cagttgtaac	ctgtgtttgt	attatagcgt	gtcttggctt	3900
tggegtttta	atgctgtcct	ttcttacaac	gatattcctt	cctgtctttt	tttcttctct	3960
tgcttctttc	ccctttccct	acttttctctg	ccttctcttc	ttctatctc	ccagatctga	4020
aagattttca	gaacaataag	catagatact	tgctagcctc	tgagaatcaa	cgccctggcc	4080
atttttccac	agcatccatg	gggtccctca	cttcatcccc	atcttctctg	tcactcagta	4140
gtcaggtggg	cttgacgtct	gtgaccagta	ttcaagagag	gatcatgtct	acacctggag	4200
gagaggaagc	tattgaacgt	ttaaaggtaa	gtaatagttc	agactgaata	caaggatttc	4260
tatgtagctc	cacaaggaag	aactaggagt	aaaaatcact	aagatttcga	ctcagcatat	4320
ggagaactct	ttgactctta	gaagtgtcct	gaaaattgaa	ttttgtgctt	tgtaagttaa	4380
tttcttttca	ttagaatgcc	tgagtctgac	atggccaggc	agagttggga	gaagtgcattg	4440
ggcagttcat	aggctggcaa	ggcagagtaa	cagattaata	gatgtgtacg	ttaatctctg	4500
gatagtacat	caagttacag	tgtaattgtt	ttgttagaaa	tttatttgga	aacgtgggtt	4560
cattgaaaga	tggaattctg	tgtagagcca	tgcttctgtt	aataaagatg	aagtttgggc	4620
cggtgtcagt	ggctcacgcc	tgtaatccca	gcactttggg	aggccgaggc	gggttggatc	4680
acgaggtcag	gagatcaaga	ccatcctggc	taacacgggtg	agacctgtc	tctactaaaa	4740
atacaaaaaa	ttagccgggc	gtggtggcgg	gcacctgtag	tcccagctac	tcctgaggct	4800
gaggcaggag	aatggcatga	acccaggagg	cggagcttgc	agtgagccga	gatcgtgcca	4860
ctgcattcca	gcttggggga	cacagtga	ctccgtctca	aaaaaaaaaa	aaaaaaaaaa	4920
aaaagataaa	gttagaacat	ttgagtact	gttccagggt	tattcagata	gttattaaat	4980
tatatcttct	agaagtccac	agaaagcctt	gatgccctat	gattactgta	caggaagggt	5040
atctctctct	atgctgggtac	ccatgggtgc	acaggcccat	agtgtgcat	gtatgcagat	5100
tactggccta	tggtctccag	ctttgtctgt	ggaggtat	cccagccct	tgctggctct	5160
gtcaggttcg	atcttatctc	tttgtatgaa	tatgaaagtt	aagagcagca	gagccttctg	5220
actcatagct	gcttctcttc	ctcctcaatt	aattcagctg	acagacagtt	gtcacctgca	5280
gtgtgaaag	ctgttcagga	atcctgccac	ccatcagatg	actgtgacag	catcatctgc	5340
tttgaagcaa	atattttttc	tttccctact	tgtcacctcc	aggaagatag	tttgacccat	5400
accttttagc	cattgtgttc	aagagtgtca	gggtaggga	cacagggagg	acaaaaaaca	5460

ctttttaaga	gtctgagaag	ttgcagtcac	gctgccagcc	agcagtcctc	ttcacagtca	5520
cttgggtatcc	cccttgactg	ccattcatgc	aaggacgata	gagaacagtg	acacattgac	5580
acattttaata	ggtaaaaggc	ttgccgaaaa	actctttaac	actaaagtga	attaagcttg	5640
ataattgaat	atgtcagatg	ctttcatttt	aattttcatg	tgaggctgaa	aaagatttta	5700
tatgaagaaa	gaggttctgc	tttttctttc	ttaatcagcc	taccttttcc	cttgacattt	5760
tacttacttc	aaaagtacag	tgtgggcccg	gcatggtggc	tcacacctgt	aaaccagta	5820
ctttgggagg	ctgaggcagg	aggatcattt	tagctcagga	gtttaaggct	gcagtgcgct	5880
gtgattgtac	tgctgcactc	cagcctgagt	gacagagcaa	gactctatct	caaaaaaca	5940
tgcttttagaa	acaaaaataa	ggccgggcac	ggtagctcac	acctgtaatt	ccagcacttt	6000
gggaggccaa	ggtgggcgga	tcactctgag	tcaggagttc	aagaccgcgt	tggccaacag	6060
tgaaacccca	tctctactaa	aaatacaaaa	aaatttaagg	gggcttagtg	gctcatgcct	6120
gtaatccag	cactttggga	ggctgaggca	ggcagatcac	ttaaggtcag	gagttcaaga	6180
ccagcctggc	caacatggtg	aaaccccatc	tcaactaaaa	ataagaaaat	tagccaagca	6240
tggtggcaca	cgcttgtaat	cccagctgct	tggagggtga	ggcacaagaa	tcacttgaa	6300
ttgggaggcg	gaggttgca	agcctggaga	ttgcgccatt	gcattccagt	ctgggaggca	6360
gagtgagact	ctgtctcaaa	aaataaataa	ataaaaatag	aaaaattagc	cggccatggt	6420
gacgtgcac	tatagtccca	gccactcggg	aagctgaggc	aggagaatcc	cttgaacca	6480
ggaggcgagg	gttacagtga	gctaagattg	cgccaatgcc	ctccagcctg	ggcaacagag	6540
tgagactcca	tctcaaaaaa	aaaacaaaaa	caaaaataat	gtgcttggtt	cttccttcag	6600
aacatgtaag	tggaaagtga	gtgaagttct	gcaacaccta	gcaaaggagg	aaggagtgcg	6660
aaatcttttc	attaaatggt	gtaggctgca	gggtaacttt	tactgttggt	aaaattgact	6720
ttgaaatttt	actaaagacc	ttagtgaaga	ggagtggtaa	gactccattc	acacattttc	6780
tcacaatagg	cgctcagtgac	catggttgct	tgcaaggctc	ttttcagagc	cagagtgcga	6840
aatagggagc	tccttgggaa	tgagaagtaa	aaactccact	tactgagtc	ttaatataaa	6900
atgttctttt	tctttgggga	tcttaagtct	taactatttg	cttattaaag	ccttagctct	6960
tacacttgag	attacccttt	cctttgacct	tcctcttgat	gtaaaggaga	aatttctccc	7020
taactgccaa	gtgggaccaa	ttgaaaataa	tgtcacatgt	taggagtcac	gacattaacc	7080
agactctcca	agattcaggt	aaccagtggt	cttccaaata	atttctaggg	aataacactg	7140
tcattatttc	gggaactctc	cttccgactt	ccctatgtcc	cactaaagca	agacaaaaat	7200
gtattacttc	aatcagaaaa	caaattttct	tgttttaatt	cttccttacg	ccaaaaataa	7260
gaactcttct	gttttcccta	gttttattct	agaaagaaaa	cagcttccct	agtgttttgt	7320
gttgtcttga	gtttttaatg	cagtgtggta	gttccactga	gcataagcac	cttagttctg	7380
ctcttatttt	gtgaatgggt	agaattttct	tcgggcagac	ctgcatttta	atgctgcacg	7440
catagaaatc	ctttcatccg	tagcgccagg	gcaatgggtg	tgcaagtaga	atgcttgaga	7500
atatctagga	actgggttcc	taaggcatgg	tgtctcagga	gaaaaatatt	ataatggaaa	7560
acagcaatag	aggaggttag	tttattttcc	taacatttta	tttccctttg	tttctttttg	7620
actttaaaaa	aggtcagttg	attggatact	gtttttacac	atgatgttgc	tgtggctttg	7680
ttcactgaat	agcctttttc	catatgttag	gtactcatgt	cacaccattg	taaagatggt	7740
tttttttttt	gagacagagt	cttgctctgt	tgcccaggct	ggagtgcagt	gacgcgatct	7800
cggtcactcg	caacctccgc	ctcccagggt	caagcaactc	tcctgcctca	gccttctgag	7860
aagctgggat	tacaggcatg	taccaccaca	tctggcta	ttttgtattt	ttagtagaga	7920
cggggttttc	ccatgttggc	caggctgggt	tcaaacttct	gactacaggt	gatctgcctg	7980
cctcggcctc	ccaaagtgtc	gggattacaa	gcatgagcca	ccatgccagg	tcttccgtgc	8040
aaataagggt	ttaaacatgc	agctgtagcc	acagctctcg	tgtttattag	tctggcatca	8100
cagtcagtag	tgtgagtgc	gttgcttagg	cttagcctat	aaatatccac	aaatatccat	8160
tacagaagca	ggcaaggcca	aatgctgtgc	taagcagccc	aaggggccaca	tttggaaacc	8220
acttaggaag	catgctatgt	tcagtacagt	aaaaccttgg	tgattcaatg	gcttcaacaa	8280
atgttctgtg	tagtaagtgt	ttttcatgga	aatattttct	acttgtcctg	gtgattttctg	8340
tgtttctcta	actgaatcat	catcaagaag	agattaaatt	gttttagctat	atgaacataa	8400
tttattaacc	agtgtatata	aaataactag	agatgcagac	agatatgacg	tgagaccaaa	8460
gagtgaaatga	cacctgagcc	tggcattcct	cggagcttaa	agaagagttc	ctggtgtccc	8520
tctgtttttt	ggaaattttt	ttttttcaaa	gaaaggagg	aggattaaag	atttatctcc	8580
tcaacccttc	atttctgaac	catgaatcca	catttcaagt	tcattctaca	ttaggccctc	8640
agagtggggg	atgggaagcc	ctggacacca	gcatgcctgc	ctgccagcag	aatgagtga	8700
tgctcctgag	actgaatgct	gttttgca	tggcttccct	atttatacta	agtttgctac	8760
tcaggcttga	acagaatata	cttcactttt	tcttaactta	gggtgaactg	tttcatagaa	8820
catttacttg	aaagcctatt	gatcctgttt	tattgaaga	aagaacagtg	agtcagcaaa	8880
tagctctaga	cctgtctcag	tgagtgtgt	gggtcactt	agcttctctg	gtctgttga	8940

acacagtggc	accatcttgg	ctcagtgc	cctctgcctt	ccaggttcaa	gcgaatctcc	9000
tgcttcagcc	tcccaagtaa	ctgggactac	aggtgcgtgc	cactgtgccc	ggctaatttt	9060
cgtattttta	gtagagatgg	ggtttcacca	tgtgagccag	ctgatcttga	actcttgtct	9120
ctgggtccagt	tttcttatct	cgtgaatggt	tccagaataa	acgattttgc	aggctttttt	9180
cagccctgaa	gttgtgctaa	tgtgactcac	agttattatt	ttctctaagt	ttccccaaaa	9240
gtttttaaaa	atagctttct	agacaacct	aaaattgcag	ctgaaaactg	taataaaaaa	9300
aaaagttgta	ccttactcat	taaatctctt	ttctgcaaag	agatcatgtt	ctgatttacc	9360
cttcagttgg	taagtaaaat	tagataagtc	atattagagt	tggctgcaaa	atggtaagag	9420
gattcctaga	cagtaatttt	gctttcttag	agtgagttct	acagttgccc	caaaatagga	9480
tggctttaat	atgactagat	aatcctctgc	tctgaaataa	cctttttctg	aaggtaatca	9540
actaggaaga	aatattttta	aaatatctca	tatgtcagtt	tgtattccat	aatcaacagt	9600
ggttttattgt	ggttagtact	ataataagta	ctagtcaaga	tgcttgtttt	aggtcgggtg	9660
catcctgttg	tctgtctgtg	tgaaggtttt	cactttgaga	agattgtata	gatttctacc	9720
cagctatctt	taatagacct	taaaattatg	taggttatat	catcagcttg	tcttgtattt	9780
gcctatttta	aatcatatgc	agggtggggc	tgggaggaaa	agaaaaaaa	ggaaaaaagc	9840
agtcataatgc	aaaagcattt	tcttttttta	aagaggggct	cactgtgttg	ctcaggcttg	9900
agtgtagtgg	gtcagtcata	gctcacttat	gcagaagcgt	ttaacaccac	tcttagtggg	9960
tgttgaataa	cttttgtggg	gctttataga	taaactattg	aaaacttggt	tcttggcctt	10020
ctcactcctt	agggaattgt	gtggatttgt	cttgctcgct	ggccctctag	tatgacactt	10080
ttgttctcca	tttgtggggc	ggcatgtgca	ctgcatggta	atcatttctg	ctgaggactg	10140
tgtagagatg	ccatttcagg	agctgtttta	gcctttgagc	ctctgtgtgt	gttctgaagc	10200
ctaagttagag	ccatttcagg	tgggttttgt	cacttggccac	ccccaaactgc	agacttgttc	10260
tagcttcttc	caacctgtta	gtataactct	tttctgaaaa	agtacctcct	acatggctgc	10320
cttactgatg	cccagggttc	ttctttaatc	tgttttgctc	tttgccctacc	tttgcctggt	10380
gttggtgttc	ttcatctttc	tctttttttt	aaattttatt	ttaaatcata	ccctcctatt	10440
tgttccacca	aactcatata	ctactttgct	tttgagctg	ctgctttgaa	tctttactct	10500
tgtttttttc	acgtgttccc	ttgccttgcc	tttggtatgt	tttttgtttt	gaggtgacat	10560
ccagtcattgt	aatattcttg	aagccaagaa	gatccagaaa	gtcaaacact	agacaactta	10620
aggtttttta	ctcaccaagtc	ctttctgtgt	agatatttac	gttttggggg	cacaggcttc	10680
gttagtaacc	tgttatcata	tgaatcatal	attgaagtgt	ttgatgaact	ataacacttt	10740
tccttggttaa	tcactactag	catcattact	atatttcatt	atcatcatct	gactttctta	10800
cttcatctcc	atgaccagca	ttttcacctg	ttttggcatg	tgctcgtccc	ccttttttgt	10860
actccttttc	cttccattct	ttgcctaatt	gctactgttc	cttcatttct	ctgtctgggc	10920
ctcactcagc	cttgattcac	ccatgttaca	gagacctgtg	aatactccag	ttctagctct	10980
tagtacactg	ttctcttata	ttctactgta	ttcgttctca	gtcctcagac	atgctgctct	11040
agcaacacat	tattcctaga	aaactccagg	tactttccca	ctctcagcat	acccacatgg	11100
cagcttctgc	tcttctttga	tctctgtcca	catatcactg	agtctgtgag	gcctgtcctg	11160
acaacctcac	tttagattgc	tccctcacct	acccttcccc	atgtgttctt	tcctcttggt	11220
gctttatttt	tgtctggagc	acttgccact	atctgacata	ctgtgtactt	attgattaaa	11280
atggattata	cttagggcgg	gcacgggtgg	tcacacctgt	aatcccagca	ctttgggagg	11340
ctgaagcggg	ccgatcacct	gaggtcagga	gttcaagacc	agcctgacca	atatggtgaa	11400
acctcatatc	tactaaaaat	acaaaaactt	gccggacata	gtgggtgtgca	cctgcagtgc	11460
cagctactca	ggaggctggg	acaggagaat	cgttggaacc	tgggaggtgg	aagttgcagt	11520
gagccgagat	cgcaccactg	tacgctagcc	tggatgacag	aatgagactc	tgtctcaaac	11580
agacaaacaa	acaaacaaac	aaaataaata	ataggattat	atcagtctcc	ttactacaat	11640
gtaaaatctta	tgaaggcaga	gattttgttc	tctgacatat	ccataggtgc	cttgagaag	11700
gcttgatatg	tattgggggt	gtatataagt	attgaatgaa	taaatcatca	cttacttctc	11760
tctctctctc	tctggtatac	agtaacctcc	ttgagagcag	gaaacatgtt	ttcgttcttt	11820
ttaaattaaa	ttaaatttaa	tttaattaat	ttattttttt	aattttactt	tacgttccag	11880
gatgcatgtg	cagaatgtgt	aggcttggtt	cataggaata	catgtgccat	ggtgggtttg	11940
tgccctatc	aaccggttat	ctgggtttta	aaacctgtat	gcattaggtt	cttatattta	12000
tataagtgta	aacactcagc	aagtgtattg	tactattgtca	cttcagtgtg	tgtcttcaga	12060
tgcgatttaa	tagtaaacct	ttctatgttg	actgctgggt	tgtgttcagg	aggttagtgt	12120
gttatggcga	aattgtagtg	aaacaaaagc	agtaaatagc	tttgggaact	ttattctttt	12180
ttttcttttt	ttgagatgga	gttttgctct	gttgctcagg	ctgcagtgca	gtggcgcgat	12240
ctcggtctgc	tgcaagctct	gcctcccggg	ttcatgccat	tctccttctt	cagcctcctg	12300
agtagctggg	attacaggcg	cctgccacca	tgcccacgtg	gatcacgagg	tcaagagctt	12360
gagaccatcc	tggccaacat	ggtgaaaacc	cgtctctact	aaaaatacaa	aaattaaactg	12420

ggcgtgggtg	cacgtgcctg	tagtcccagc	tgctcgggag	gctgaggcag	gagaatcact	12480
tgatccccag	aggtgaggtt	gcagtgatct	gagatcgcg	cactgcagcc	tggtgacaaa	12540
ggaagactcc	gtctcaaaaa	aaaaaaagac	ttggaggatt	tatttggttg	gggttgattt	12600
agtttttagt	ctaactctta	tgattcttat	cttatgtatt	aataaaaaga	aaatctcttt	12660
acatttaatt	ctggcctgta	tcctcaaagg	gcattgattt	cttcttgctt	ttctagcatg	12720
gtatgttaaa	ttataagact	ctttgcctct	ttactgtgc	gcttccttcc	ttaggaaatca	12780
gagaagatca	ttgctgagtt	gaatgaaact	tggaagaga	agcttcgtaa	aacagaggcc	12840
atcagaatgg	agaggtcagg	aggttaaaat	ctggaaatgt	ttctaagttt	tctaggggat	12900
gtggattact	ttatcgtaag	aaaagataaa	atataaatta	aaatcaaaga	gtctgccctt	12960
ctaaaacaca	aaacgaaacc	aaaaaaatgg	acagggattt	atggccagtt	gaatttatgc	13020
tttgaaatga	catctacata	tttaaatatt	atctaggagg	tcacaggttt	attagttacc	13080
atattacatg	ttgctaggga	ttcataaaaa	tggaacatat	tgccaggcgg	cgggtggctca	13140
cgctctgaat	gccagcactt	tggaaggctg	agggtgggcag	atcacgaggt	cgggagatcg	13200
agaccatcct	ggctagcatg	gtgaaacccc	atctctacta	aaaatacaaa	acaaatttagc	13260
cgggcatggt	ggtgggcacc	tgtagtccca	gctactcggg	aggctgaggc	aggagaatgg	13320
cgtgaacctg	ggaggcagag	tttgcagtga	gccgagatgg	tgccactgca	ctgcagcctg	13380
ggtgacagca	agactctgtc	tcaaaaaaaa	aaaaaaggaa	tagcctcttc	ttttcttttt	13440
tatatataata	tgcatatcat	ttatgaatta	ttgactatcc	caaagtcagt	tgagacaaag	13500
ttcttatctc	agtgaatata	actttaacaa	agcaagattt	cattgatattt	gaatgtgatg	13560
ttgcttttag	aaataacttc	tcattaatga	tgagataagc	acattatattt	atgtttgcat	13620
tattggctat	aaacatggcc	agttgttttt	gctttgcagg	ctttatatttc	caattcatat	13680
tagactgatt	taattgacat	tttggatta	gtgttctgat	atacctgttt	ttttctaga	13740
gaggctttgt	tggtcgagat	gggagttgct	attcgggaag	atggaggaa	cctagggggt	13800
ttctcaccta	aaaaggtagg	aaacaatgct	gtgaaaccta	atcagacaga	gacacttttt	13860
gtttgtcttt	gttactgggg	cacttcatgt	ctttcaggac	ctactctccc	ccttattatc	13920
ttgatacttg	ccttaatttc	agatatttct	gatttcatct	tagagcatgg	tcttatagta	13980
caaaggcagc	ctattttcta	aatgcctatc	ttgtttactg	tttcaaaaag	aaaaaaccta	14040
aggcaatatg	taaccttttg	ccatgattca	gtttgtttag	tcactcttat	ttgttgcttt	14100
ctcttaaaatt	ccagccttaa	cctagcgtac	tttcagtttt	ggctactctt	tcagttagat	14160
tttccacag	aagtcgtcta	cctgctttta	taactttttg	gaaccaattt	cagctgtaca	14220
ggtttgtgga	gaataatact	gcttccattt	gcttctgcaa	tttgatttat	agacagccat	14280
tgtactaagt	aaagcaattc	ctgtccctat	ccttctagac	tcctctgctt	ccttcttcat	14340
tttttaaaaa	gtgtctccaa	tagttacctt	cgtttttaca	taatcatagt	tatgaagtag	14400
ttacgtagct	tttagcta	tagagtagta	aggggttttt	tggttttttt	ttaaactaag	14460
ttgcaacgct	ttgttggata	ctagaaaatg	actatcaaat	ggttattttg	tgtgcttatg	14520
tatcagaaaa	taggagaaca	tatatcgatg	tacaaagcat	gtattttatg	ccactagtaa	14580
attgtccttt	atttcaagt	acctcacatt	ggctattgga	gacttaaaaca	tctttattca	14640
taggtttctgt	tgtatgatct	tctaagttag	gatacaagg	gtggtgagtt	ttgaattgg	14700
acttttatgt	gatatagaat	attcctgtgg	ttttcgctac	aattcttctg	gtcagggttt	14760
tctactcctg	ccacataaact	tttttttttt	ttttcttccc	aaattccaat	gtgttttttt	14820
caacagaaaa	gactgatgta	aagacatttt	agatgcata	tgtagaatag	aacagttaag	14880
tattttatat	gtttatatta	tgaaagggtta	gtgggttttca	cagttttaat	agtttttctt	14940
tcagtaagac	atgtattcat	tcagatatgt	tacttaggat	tatatagatt	ttagcagtta	15000
cagttttggt	ggaattta	tgtgcctatg	catatgtcta	ataaagggtat	tttataacat	15060
cttacagtat	taaagactgt	gaggaaattt	tttttttttt	ttttttttga	gacagagtct	15120
cactctgtcg	ccaggctgga	ctgcagtgg	gtgatcttgg	ctcactgcaa	cctccgcctc	15180
ccgggttcaa	gtgattctcc	tgccctagcc	tcccaagtag	ctggactgca	ggcacatgcc	15240
accacgcccc	gctaagtttt	gtatttttag	tagagacgg	ttcaccatgt	tgccaagggt	15300
tggtcttgat	ctcttgactt	tgtgatccac	ccacttcagc	ctctogaagt	gctgggatta	15360
caggcatgag	ccactgtgcc	tggctggaaa	atttttatta	taacaactag	tgaaaatatt	15420
atgcatttaa	cataaatcat	aaataacttg	aacaaatgtt	gagatgtaca	ctgcatggaa	15480
ttccaaagt	agatctctgc	ttccaaagct	tttcttact	ttaattttac	ccatcttgct	15540
ttagctttct	agacttcttc	atgaaaggaa	gggatatacc	agtgaccaca	tccaaactca	15600
gtcttaggac	ctgtttctga	gattccattt	ttcaaattat	gatgtgcttt	aaagaatgct	15660
actcaciaag	ggctttgact	ttctcaaac	agtcaagttc	ttcaactaca	aagggggatg	15720
ctagttgaga	agatgtggag	gtttttcaga	tttctcttta	accatctttt	atagttcctt	15780
ttcctacccc	ctcatctgac	tcttcttcca	tttgctggca	ctctcttgag	ctctcttgag	15840
tagattttgg	cctcaagacc	atgtgactta	tttttgatt	ccagtgggtt	attttcacta	15900

aagaaggttg	gttttttaaa	aagatttttag	aaatattaga	gttagatgaa	gaggattgtt	15960
agaagatggt	tatcttatcg	aatatcagta	atctttacttt	tttctttaag	gtaaagacta	16020
ataaattaaa	atctttttaag	gtaaagacaa	attaataact	gggatcagaa	gaactgataa	16080
aaattatagt	gggaagtggg	gggggggtat	ggggacattt	taataaaagt	aaatatttct	16140
tgagattttt	acccaggcat	ttacaaaaat	tataattatt	ccgttcagag	aattggcctg	16200
tcattttttc	cttgtgcttt	gaccttatca	aaaattaggt	cttgtttttt	tatcccagaa	16260
ctcatgtttt	aaaatggaat	gccaggcaca	gtggctcact	cctatagtcc	caacactttg	16320
ggaggccaag	gaggggtggg	cagttgaggt	cagtagttcg	agaccagcct	ggccaacatg	16380
gtgaaaccct	gcctccacta	aaaatagaaa	aattagccag	gcgtgggtgg	gaacacctgt	16440
aatcccagct	acttgagagg	ctgaggcagg	agaatcactt	gaacctggaa	ggcagaggtt	16500
gcagtgagtc	aaaatcatgc	cgctgtactc	tagacagagc	gagactctgt	ctcaaattaa	16560
ttaatttaatt	aaaataaaaat	agaatgcact	tggttccgtt	tgggtgaggcc	tgaagagagt	16620
gttttctctt	tattatggaa	ccgcaactag	ggataaaaaag	aaatccctct	ctaggctctg	16680
tggagagtgt	gagaagcctg	gcctcttgta	ggccccctgt	gttaccacag	ctctctcatg	16740
gtgccctgct	ccaaattgat	catctgtaat	ctttttcaga	ccccacatct	tgttaacctc	16800
aatgaagacc	cactaatgtc	tgagtgccta	ctttattaca	tcaaagatgg	aattacaagg	16860
tatattttatt	tcctgttttg	gtcacttcgt	gtgttttccc	cctcttagat	aattgaaata	16920
ctaaagggaa	gggggttgaaa	aaattaacgt	aatgatttgc	tgtatttttt	gtctgaaata	16980
gttacaaact	atgctctctt	tccaaataat	gtgtttttgc	cactggagcc	agttactatg	17040
tagtttttct	ctgaagaccc	taaataattt	ttttttcctt	taacaaatat	acattcctta	17100
gggattttat	ttgactcatg	tctttataat	actgtatgag	ttacattggg	atatcagtgc	17160
tccttgtttc	tattcttgat	gtagagaggt	tgatcatatg	tgaggataga	attcatagtt	17220
gaaagcttct	gatgcaacaa	ggcaatacct	tttttgtacg	taccaaagga	tattctttgg	17280
aataaagagg	ttcattgttt	gtagtgcctt	ctgtgtctga	atttccctgg	gaaacacttt	17340
ctcttggtgt	cagggttggc	caagcagatg	ctgagcggcg	ccaggacata	gtgctgagcg	17400
gggctcacat	taaagaagag	cattgtatct	tccggagtga	gagaagcaac	agcggggaag	17460
gtgagcattc	ctggctggag	cttcagcaac	aacattttca	ttttatatta	tgagaaatcc	17520
ttaagacttt	gtattctctg	tctatcagta	gtactttctt	atacaatcta	attctgaaaa	17580
atggagagac	ctgggctgct	tatgaatgca	gagatggaca	aggctgcttt	acatgaaat	17640
agcttggaca	aaagaagccc	ttttttactg	ccaagaactg	agaaggacat	aggcaattag	17700
gcttggctct	gaatgttaat	tatttaatat	aaaagtaaga	aaatagcaga	tatcctgggt	17760
aataggagat	ttgaaggaca	ttaagtcaac	ccagcagaat	ttatttttat	ctaaaaggga	17820
agaaaaagtc	agtcttgatt	tttgctggg	ttattaacaa	aacaacaatt	taatggtttt	17880
ttctgtttat	ataagtcact	cattccctta	agcttctcag	agcttctcag	tctttagttt	17940
ctggttatta	cctatatctc	atccttacaa	tttctgatgg	ttctgagttt	tattgactga	18000
accgtcagag	atccctgaaa	ctaataattt	ctatcatctt	cttaggttta	tcaaatagag	18060
ttaaattgtc	ttgtgttagc	catggccaca	gatagcctct	tctattgggg	ctagtctcgg	18120
taccccaaaa	tgaactactg	tatagacaac	ttcagccact	tgattgattg	cagggattta	18180
ttctacttac	tgcaaatcct	gataagcaac	tgctttccat	tatttgattc	caatagtgtg	18240
taatgataac	atagtttgt	gtttgttctt	cttagttatc	gtgaccttag	agccctgtga	18300
gcgctcagaa	acctacgtaa	atggcaagag	gggtgtcccag	cctgttcagc	tgcgctcagg	18360
tgagactggg	agaggtttgc	catcttcagc	aatgtgcaca	tggcttctgt	gacaactcta	18420
atttttggct	gtttaaaggc	tgaagtaata	gtcagcatta	ggatttttgt	tcttgtaaaa	18480
acaacagctc	tgaagctgt	cttttcacat	tagggagggg	tgaggttgtt	aaatagatac	18540
tatatattaa	aaaaattatt	tcttaaccct	atttttctgt	tttgtgctag	gaaaccgtat	18600
catcatgggt	aaaaaccatg	ttttccgctt	taaccaccg	gaacaagcac	gagctgagcg	18660
agagaagact	ccttctgctg	agacccctc	tgagcctgtg	gactggacat	ttgccagag	18720
ggagcttctg	gaaaaacaag	gaattgatat	gaaacaagag	atggagaaaa	ggtaatgccc	18780
agttacgcag	cccatatgac	tgtttcttct	tttaaacatg	taataactaat	agcattcttg	18840
aatttttttt	ttttttttta	cttctaggct	acaggaaatg	gagatcttat	acaaaaagga	18900
gaaggaagaa	gcagatcttc	ttttggagca	gcagagactg	gtaggagtcc	tgaatctgct	18960
aaactgttgg	gaaaagggca	gcttgttccc	atactttccc	tgttccacag	agcagtactc	19020
acccaaattg	cttctgtctc	aatgatacca	agcactattc	tttaatttcc	ttaatggaga	19080
atgaacttaa	atctcccggt	agccttagcc	tgaaaaaata	gtccacagag	gtactctttt	19140
gggcttttta	tgtcttaaa	ccaaatctta	acttctgtta	caaccaaata	ctttttaagg	19200
aaatagagct	tttctggtag	cctttgcctc	ttgatagtgg	ttttggaatt	tgettccagt	19260
gtggttcttt	aaatgataat	tactctgaat	attgaatttg	gtgagagttt	gccttggttt	19320
tgtttctgat	cacttgatag	tactaattct	ctgctcttgg	gctgactttg	ggattgttct	19380

tacgctgggc	agactttttt	tttttaagtt	aaactgtgtc	taaaagtgtt	gctgcacagt	19440
tgcatgtgtt	actcctttcc	ttatccccctg	catggagtct	gaattctcaa	tcagggttctc	19500
agtggcatgt	gtggtagcgg	tgggagcaaaa	ggctgcatac	ccagcccggg	caggacagaa	19560
ggcttgcttc	ctttgagggg	aggaggattt	gagtgagcag	ctggaaagtc	tgtttaaggt	19620
cccagctatt	gatacaatac	taatggcttc	agcgttttat	aatggtaatt	gatttcccag	19680
atttgataga	aactgaatct	catgaataaa	taagttgatac	cattagttag	attttcat	19740
ttaaagccaa	ccaaacaacc	aatttttggt	aacaaagctg	tggttataag	aaccttctca	19800
gcattcattt	gatatgtaag	aataaagtat	aactaacctt	tgataactgt	ggatgcagtt	19860
taggaagttc	tcatttttta	agattcagtt	gtatctttct	tttaaggtaa	gggggcatta	19920
gggagaaagt	tcaagcactg	gcttctttcc	ttagtataaa	atacagcatg	taaactacag	19980
ccttctagtc	atgctctgtg	ctttggagaa	gaaggggctt	agtgctaagt	gggccagaaa	20040
cgtgaaggac	ttgagcacia	gcaacctttt	ccagaatacc	tcagttctca	ggcatgggca	20100
tggtataaac	cagttagttt	gttatcttgt	aaattatagt	aaagccctaa	aaagaatgga	20160
ttgtaagaat	aaatcaaggg	tttggggcaa	gataatagca	gtgttaccaa	cagaggctct	20220
ttaggaggcc	tttttagcat	taagttttta	atgaaaacgg	aaagaactag	ctacaatgtg	20280
attagtggct	tgaagggttt	gtgacacaag	agatgtctct	ttatcttaat	aatgtagtac	20340
attctaataa	catgctctgt	atggtctgtg	agagatcaaa	tgaggacagg	tgtaatttaag	20400
ctctattatt	aacaataatg	ccttgtat	gtatagtgtc	ttataattta	cagagagcgt	20460
taacatccat	caatttattt	gacctcctca	acaacctctc	ttgtttactt	atgcatatgt	20520
ataagtaaaa	tatgtaatat	tacctccagt	tgaggaaacc	aaaacttggc	tgggcgcggt	20580
gggtcacgcc	tgtaatccca	gcactttggg	aagcctaggg	aggtggatcc	tgggacctca	20640
cttagaataa	ctaagcacgg	tgctcgcttc	ggcagcacat	atactaaaat	tggaaacgata	20700
cagagaagat	tagcatggcc	cctgcgcaag	gatgacacgc	aaattcgtga	agcgttccat	20760
atttaaaaaa	aaaaaaaaag	aaacaaaaac	cacaaaaaca	aaacaaaaac	agacaaaaca	20820
aaaaaaagaa	taactaagca	cggcagaata	aggatgcctg	gtgctatcca	taaccaagag	20880
ttgggtgatca	ttctgtgccc	taaaaataag	atggccacta	aataaagaga	aagtgaatgt	20940
ctaagacgta	tttagtttct	agggaaatgta	cataccctgc	agataatcag	attctggttg	21000
ttgtttgtct	tgtgtatctg	aaagcaagcc	aggatttcaa	gagcagcttc	ttaaagcaag	21060
gaagttgctt	tcctctcaaa	ggctgtgtct	ttccactttc	atttcttgac	ttaagggagg	21120
aactgatttc	taacacttca	gcctgaagaa	tatctaccag	tagtaatact	gaatggaaaa	21180
tgtctttata	tattaccctg	tattgggtcaa	ttacagatg	tatttcta	gcacctgtg	21240
aataaacatt	gagagaatac	aaaggaatta	ttaatcagta	aatatttatt	taatatttac	21300
catatgtaat	cactttttgc	ataatgtcag	cattaaacaa	tggatttcag	gctcatgagt	21360
tttctattct	taagtctccc	aaatgcatac	catgtttagg	gtgctgagta	tttcttcag	21420
ttagtgtctc	aggataccct	ggctcctttc	gtgcttgctt	tttacacaca	gttttgggat	21480
cttctctctt	cttatttgca	taagttcctt	gcagagtctc	tttaggaggc	ctactttgca	21540
tttggcattt	aatgaaagcc	gaaggatcat	tttgtgacat	gtgaattgac	cagacctcag	21600
tagctttttc	aactccttaa	taaatgaatc	taaatatatt	aaaaatctgg	ccaggcgcgg	21660
tggctcacgc	ctgtaatccc	agcactttgg	gaggccaggg	ctggcagatc	acttgaggtc	21720
aggagttcga	gaccagcctg	gccaacatag	tgaaacccca	tctctactga	aaatacaaaa	21780
attagcagga	cgtcttggtg	ggcacctgta	atcccagctg	cttgggaggc	tgaggcagga	21840
gaattgctta	aacctagcag	gcggagggtg	cagtgcagca	agatcgcgca	actgcactca	21900
agcctgggtg	ataaaagctag	actcagtgct	aaataataat	aataataata	ataataataa	21960
tatagataaa	tataaaaaat	tctttttttg	acatggagat	aggatttata	tcacataaac	22020
tttgcataca	gttttttagta	tcaccatcaa	tatgtgacag	ggtgatacat	ttgaacttta	22080
aagaggacat	actctacaga	gtcaaaatgg	cagtatttta	aaaagaaaga	aaatgacagc	22140
tgctagattt	tacttgagtt	gagttctttt	ggatttata	agacttattt	atattttatt	22200
ttagagttta	aagataactt	ttgtctctta	agcatgatat	taaaacaatt	cttagaatac	22260
ttgtcatttc	ctgaattagg	taatattcat	ttcatcctta	agcaatttga	agaggaaaag	22320
aaaaacagcc	agaaaaaaag	tgatagttgt	tggttatgtg	ggaaagaatc	aaagataatt	22380
tgtttatgtt	ctgtaaaaat	cagtttatat	atatttgcaa	aaaatcctct	tcaggagtca	22440
gacatagttt	tttctcta	atttatgaat	gtcatattta	tacttataaa	ttagccatta	22500
tgatttttaa	aactaaaaat	gaaaagaaaa	attaatgtag	agtctgtgta	aatttagcaa	22560
acttttggtg	gtaagttatc	aaataggtgg	gagttataaa	tgggcttagt	actcatttgt	22620
aggtcaatag	aaataatata	aatcagtggt	aagattttta	aattcagagg	ccaaattatt	22680
attattattg	tggaaagtta	cttttttggt	ccttagaaaag	tgactataca	ggcaaatctt	22740
tggttttgtc	aggtgtgctg	atgtgtgctt	ctagtcccg	ctaaggcagg	aagatcactt	22800
gagcgcaagt	gtttgagacc	agtttggttc	cctgtctcaa	aaaacaaagc	aaacaaagaa	22860

acaaacaaaa	acaacaaact	ttggtctagg	aggcaaggta	ctatztatca	gtttcaagca	22920
aacaaactct	tctagagata	tttttggtta	ccacagtgaa	taaaagattg	actgttagta	22980
actattttca	tttactagac	tgccttgaac	tactcatctg	tgagttgagt	attttttttt	23040
taagtgaag	catgtttatt	aagaaaataa	aggaataggg	tgggtgcggg	ggctcaccct	23100
tgtaatccca	gcactttggg	aggccaaggt	gggtggatca	cctgaagtca	ggagttcaag	23160
accagccggg	ccaacatggt	gaaaccccat	ctctacaaaa	aatgcaaaaa	ttaggtaggc	23220
gtggtggcag	gtgcctgtag	tcccagctac	tccggaggct	gaggcaggag	aattacttga	23280
accaagagg	tggaggttgc	agttagccga	gatcgggcac	tccagcctgg	gcgacagagc	23340
aagattctgt	ctcaaaaaaa	aaagaaacaa	agaaagaaa	taaaagcaata	aagaatggct	23400
acttcatagg	cagagcagct	gagtattttc	ttttcccagc	aacttttatc	tcccgaatag	23460
aaattctttc	taatccact	tactatttgg	aattctaaat	ccaacattgc	tttcccagag	23520
atccatgtta	tcaagatttg	cttgtattag	ttaagagcga	ttgcttatta	tctatacagc	23580
ccttgaaatt	acattgttgt	gaagtcaggc	tgtctgttta	gggctaagta	agggtttctg	23640
aaaaagaggc	aatggtgcaa	agacagctgg	aaagacagag	ttaaacatac	cttttaaaagt	23700
ggatcaattt	tatgtaacca	gagtatgata	tttctgtttt	atgtgtttat	tgggaagagtt	23760
gtcacttaaa	gtgataattc	tcaaatagtc	aaaaatgtcc	tgggttttct	agatagaaaa	23820
tatctctaag	ttgtacttat	taaaatgtga	cttggggaat	tttaaattat	attcagtgga	23880
agtatatattg	cccagcttta	tttttggtcg	ggtaatttat	ttctcaaaat	tttggagggtg	23940
aggctctttat	tgatttgtgt	gtgtgaaaaa	caagacaaaa	cacacccact	atgaggatcc	24000
tttaaaaaaa	aagctttctt	gttatccaga	taacacactt	taatcgtacg	acggaaatgg	24060
atacatttaa	catgacaaaa	aatagcaaat	cctctgctca	tggaaagatg	atttccaaac	24120
cctcttgtct	tacagaagaa	aacatttggg	tgactaagaa	ctgacatggg	ctgctcatag	24180
ggattcttag	catttttaac	atcatccctg	tttgactgct	tctttttcta	cattctcatc	24240
ttctaacttt	tttctagggc	tgtctttttt	agtaaagcta	aacaaaaact	ggcgtcctac	24300
agccttacta	acctttgtta	atccgcctgc	tgcgcacatc	tttgtatggc	atctgtgctc	24360
actcatgggg	gaaagagatt	ctggaagaag	caacagcaat	aaccaaggca	aatgtgggga	24420
agtgtctgca	tgggttggtta	gcatgatgtg	tggggcctag	gttttacttc	attttcttcg	24480
aatagtggag	tcgttaagtc	acgccatttg	aataattttg	tatgaccata	gggtgacata	24540
ctcatccctg	ttgtcaattc	tcctaagaaa	tttgggtggc	aatttcatca	cttaagccag	24600
aaagtggaaa	tttggattag	ggatgccaaa	taagcaaatc	tttatattga	tagaaatgta	24660
cataggcgta	tgtcttaata	gacttccaca	ttattgaggg	gttttttttg	gttttgtttt	24720
gttttttagt	ttttttggtc	ttatttttta	atltgggtta	ggcttttttg	cttgcttttt	24780
cttcgattta	atlttctctt	tttacatttt	aatlttgggt	atlttggggc	cattttttga	24840
ttttgttttt	ccaaaggacg	cggattctga	tagcggggac	gattctgaca	agaggtctgt	24900
tgaagagagc	tggaaaactga	ttacttctct	gagagaaaa	ctacctccca	gcaagttgca	24960
aaccattggt	aaaaaatgtg	gcctcccaag	cagtgggaag	aaacgtgaac	caattaaaa	25020
gtatcagata	ccccaaagaa	ggcgcttgag	taaagattcc	aagtgggtca	caatctcaga	25080
tcttaaaatt	caggctgtca	aagagatttg	ctatgaggtt	gctctcaatg	acttcaggca	25140
cagtggcgag	gagattgaag	ccctggccat	tgtcaagatg	aaggagcttt	gtgccatgta	25200
tggcaagaaa	gaccccaatg	agcgggactc	ctggagggca	gtggccaggg	acgtctggga	25260
taccgtcggt	gttgggggatg	agaagatcga	agacgtcatg	gccactggga	aaggcagcca	25320
ctgatgtaga	tgacctcaag	gttcatatag	acaagctgga	agatattttg	caagaagtca	25380
aaaagcaaaa	taacatgaaa	gacgaggaga	taaaagtctt	aagaaataaa	atgctcaaaa	25440
tggaaaaagt	cttgccactg	atcggatctc	aggaacagaa	aagcccagga	agccacaaag	25500
caaaggagcc	tgttgggtgt	ggtgttagta	gcacctctga	gaataatgta	agtaaaggag	25560
acaatggaga	acttgcaaaa	gaagaacgtg	tttcccagct	gatgaatggg	gatccagctt	25620
ttagacgtgg	acgtctgcgc	tggatgaggc	aagagcaaat	tcggtttaag	aacttgcaac	25680
agcaggagat	aacaaagcag	cttcgtcggc	agaatgtacc	tcataggttc	atccctcctg	25740
agaaccggaa	gccccgcttc	ccctttaaga	gcaaccctaa	acacagaaac	tcttgagatc	25800
ctgggacaca	tatcatcata	acagaagatg	aggttataga	gcttaggatt	ccaaaagacg	25860
atgaagcaag	gaaagggaat	aaagaagaga	gccaagaaaa	agggggtaaa	ggagctttta	25920
aggatcccca	gtttccatgg	ggctctcaag	gaatgagaag	tcaagatcac	atccaagtta	25980
gcaagcagca	cattaataat	cagcaacagc	cacctcaata	cgttgagaga	gcaattctct	26040
caataatggc	cagccgaaaa	gtacgcgctg	ccaggcatct	gcctccgcgg	agtcattaaa	26100
ctcccacagt	ggtcacccca	ctgctgatgt	acagactttc	caggcaaaagc	gccatattca	26160
tcaaacccgt	cagctttact	gtaattataa	cactggagggt	cagtttagagg	gcaatgcagc	26220
cacttccat	cagaagcaga	ctgacaaacc	cagccactgt	agccagtttg	tgacacctcc	26280
gcggatgagg	agacagttct	cagcacccaa	tctcaagctg	gtcgagaaac	cacagtataa	26340

atcagttact	ggacaaaactt	gaaatcatgg	tggaagaaac	agacagtgtt	agctcatgat	26400
ttgatttggt	tctacctttg	gccttgagtt	cttattatth	acattataaa	tattaactgg	26460
ttttatattg	ttaagacaaa	acactggtaa	aagtttcaac	acctcccttt	tgcttgata	26520
ccataaatgg	gcagtttctg	aaattttgga	taaagcatca	agaactcctt	tttctgaaac	26580
gttccctcctt	ttttagtgcc	taattaatat	acttacttac	acagacttgt	cccatcttga	26640
tgtaagtttg	ttatgttttt	ataatgccta	taaattaatc	tgacatccag	aaagacctgc	26700
ctcttagttt	atgcagacat	tcaaaaggag	aatttgataa	gcagaattaa	atgtctgtta	26760
ttcataaatg	ttagaatttg	gtttaaaaat	aataacatgc	aactgggtgg	gcacagcttt	26820
ggattttctca	tccacgtctg	ttcccttctt	taaatatgat	tagaattttc	gtaagccaaa	26880
actaaaggtc	ttcaaacata	tcttgcaata	catagctttg	catcttccac	acaacttcca	26940
cgtcttcttt	tattctgtat	tttacaaaaa	actcatataa	tggttttttc	ttttgaatgt	27000
atcagaatat	gtatgaaatt	tgtcatatca	gaatctataa	attggcactg	tgtctgggat	27060
tctgtttgtg	gtttgcattt	tgaagttcaa	tgtatcattt	gacacacatg	cacacaaagt	27120
gaactattca	ccaaaatcat	gccaacagaa	ataccaacaa	aaaacttgtg	tagcttgtaa	27180
ggagggttatt	tggcttgaga	gggaagaggt	gggacagaca	tgggggacaa	agctacagca	27240
tatggctctg	tggtgctgct	tttttccaat	agttgatgaa	atagtgaat	aaaagttta	27300
tttggttggg	cttggataaa	aggagatgat	acataataaa	ctattctttg	gttagcatta	27360
gtaatgcttg	tagacactca	aacaaggaag	gcgaagtcct	gatgatgatt	tattgtatca	27420
atacctcatt	ttatttggtt	gtggtctcag	tttgctcac	tggagaatcc	actaagaaag	27480
atggatttta	atgggaagaa	aagaattatt	ttctacatcg	ttctcatct	cttgagtttg	27540
tcaaaaaggtt	ttctaagagg	cagtgtgaag	agccagagat	gtccgaaatt	gcctgacttc	27600
atgttttggg	agattcctaa	gtcacatgaa	atcatctatc	aaacacttgt	cttccaaacg	27660
gtgtgaaaaa	ctacagccaa	gatagcagtt	agcattcaag	gaagccttaa	agattgtgat	27720
tatgtttttt	tttcttttgc	gtgtgggcac	tatgctttat	tagaacacat	tatttttaata	27780
catagtattt	tttctttgcc	tctaagaaaa	tactttctta	atgctcagaa	agttgcttcc	27840
aattaatggt	tttttccctt	taaaaagaga	agctttgaga	gatatttttg	ctttcatagc	27900
tagaacagtt	gaagtcttca	actgaggttt	tatagcagat	tagacatggg	taaatgatgt	27960
ctgtattggg	ttgagttact	gagatgacaa	tctctgtgct	catttggttt	gaatgtactt	28020
gataggtctg	ttcaaatcag	tcaactcaat	gcattttgtg	taaacccagt	tgtccttttt	28080
tattcctctt	tagacataaa	tgtgctaact	attcctttct	atacacaatt	tattttctaa	28140
gattaaaaat	aataattgct	aggttttggtg	gcacatgcgt	acagccccag	ctacttagga	28200
ggctgaagca	ggaggatccc	tagagcccag	gagttctggg	ctgtgggtaca	ctatgccagt	28260
tgggtgtaag	ttggcatca	atatgggtgat	gtccctgaag	caggaaacca	caaacttgca	28320
tcaggacggg	tgaacccagc	ccaggttggg	aatggagcag	gccaaaactc	ccaggctgat	28380
cagtaaatggg	atcttgccct	tgaatagcca	gtgcactgca	gccaggacaa	cagagtgaga	28440
acctgtcttt	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaggt	aatattttat	atattattca	28500
ggtttcaact	ctgtagcaaa	aatgggctct	catttcccta	acttgagata	acatagggtta	28560
ggctcatata	ttttcattct	tacagtggtc	ttttcatggg	agtgaatgag	ttactctcca	28620
ctggtgatta	ggtaatactg	tagaatgaag	agttgtataa	tatattcatt	tacagctgtg	28680
gattgtggta	aggactatgt	ccacagtgat	attccaaaga	attgggttta	tatttgtgct	28740
tcatctgtta	atcccagggtg	tcctcatggt	gctgaaatat	ttagatagct	aaaatatccc	28800
ttaatttcac	agatgaccag	gaagaaatta	accaaggttt	tattgactgc	catgtatgtc	28860
ccatgatgca	tttctgagca	aatgcttatc	ctagagaata	actctgtatg	aataaaattg	28920
cttaattgag	tctcttacta	aataagtaac	tagtgccatg	cttttgtgag	ctcttggtat	28980
ggcccatatt	actttgtttt	ttgtttttgt	tattgttgtt	ttgtgatagt	cttgctctgt	29040
cgccacgggt	gcagtgcagt	ggcacaatct	cagctcactg	caacctctgc	ctcctgggtt	29100
caagcaattc	tcctgtctca	gcctcctggg	tagctgggac	tacaggtgca	tgccaccatg	29160
cctggctaac	ttttgtattt	ttagttagaga	cagggtttca	ccacgttggg	caggctgggtc	29220
tcgaattcct	aacctcaggt	gatccacctg	ccttggcctc	ccaaagtgtc	gagattacag	29280
gcgtgagcca	ccgcgcctgg	cctgtttgtt	tttttaacat	gatttttctc	taagcttaaa	29340
taccacaagg	ccaaaagaaa	atgggtcataa	tttaaaccat	tattatattg	ttgaggtatc	29400
cctagctatt	attatagcaa	agtgggaaaa	aagtgtttat	tctattgaag	ttatgtaatg	29460
atccgacatt	aatgggaata	tagaggagtc	ctaattaatt	ggtataattt	cacaaagcgg	29520
aatgggtattc	cttgagaggt	taaagacatt	ctcttttagta	agtgtaaacc	aaagggcatt	29580
ttctttattc	ctgcttctaa	ttccttctag	cccagtgaat	tattttctct	ttcactggta	29640
atgtgatgaa	tgggaattgt	ttattacatt	gaagtgaact	gaagtgaact	tttgtgcttt	29700
aggtgcaggt	tgacactgaa	aaaaaaacaa	aacactgaat	tttccacacc	tatgtctgca	29760
ttaaaggctg	ttttactacc	ggaagttaca	tagacttcct	gcagtcagct	gctgtgcccc	29820

agtgccttac	tggtcctttg	tagatttgcc	ttaatgattt	gtacaaatga	ctgggaggcg	29880
gggatgctgc	ctgtgtcctg	gtgaacctta	atgaaggggc	cgtcttaggc	acagtgc aaa	29940
acaagcattt	gtcctgtact	gttagagcca	aaattgtgat	gagcaatact	gataattgtc	30000
cagtttatgt	catctttccc	agattttaaa	atctgttcta	gatatttcta	gcttgaacca	30060
cttttgattg	tgaatgtat	taggtgttgt	cccattatta	ctgtaaaatg	aagttttgaa	30120
tcttcttggt	aataaactgt	ggatttcccc	tctcaatttc	ttaaacaaca	acaaaaaaat	30180
gcttgaagat	tgtctttgag	tgtgaagatc	gccttttcag	aaagggagtg	ttagtttgta	30240
atgttaaaaa	ataaagacct	cattcaataa	aagttgaagt	catcttttaa	gagtgtgatt	30300
tctctctatg	tgggaagagg	gaaaaggaaa	gcaaggtaat	gctaactaaa	cctgggtttg	30360
acttttattt	attgcttttt	catctgaaga	tggttgtaaa	ctaaatcttc	tttttgatat	30420
ttctatgtga	acttgattag	ttttaaagct	tttgctttag	ctaccctttt	ctgttttaaca	30480
aaattctatc	ttaagtgaaga	tctttcagcc	ctattttatg	ccacatttca	cttacataaa	30540
atcttttctc	acaaaagatg	aataaggata	ttactttctg	atttgagttt	agtttaacca	30600
tgttttcagt	tttttctcta	catactcttg	gtttgaagtt	cttttaaatg	aaatgattta	30660
ttttccttta	tatgggcaga	aactaaattt	ctaaaaagtt	ttgagtgaat	ctgcaggttt	30720
tctttctcct	ttaacctctg	cttttcttca	cccagagtat	tgatgggtaca	ctagagagga	30780
aacaggacaa	agcagaatat	ttttctggaa	tggaccacta	gtctcattga	aaatttggac	30840
ctgacattat	tttttaaatg	ttaaaaacaa	cataatcacg	catcatggga	tagaatacaa	30900
aatccacatg	agtttttaat	atgaaatctg	aaacttttaga	gaagtgttat	gcctgaatcg	30960
gtctgcttcc	agcctcatat	ccttttccct	caggtaacttt	gtaatccttt	gctgtcggag	31020
aaactgttgg	aaaagttgca	atgtccctac	cgtttatagg	gtgacacaga	agattacagt	31080
gtgatatgtg	tagtgacact	gtgctgatga	gactgtggcc	acacagtgtc	gctgggtggtg	31140
agaagcgaaag	ttaagtgttg	tcaacaactg	gggtgtcatc	ttgggtgtgg	atattttcct	31200
tccagctatt	gcttgctaata	tataatctgc	cattaggagc	caagccttta	atgtctaaaa	31260
cagcctaacc	ggaaaactca	gaatgggtgat	attgatttta	ctgtgaatat	caccttctca	31320
gaggtgcctt	aattgtacca	ccatcatctc	tcacgagag	taccctagct	tgtctctttg	31380
cttctattct	tgacccttat	aatccaatgt	ccacatagca	accaagatca	tcttttaaaa	31440
acataaaatca	tatctgttca	gtgtcctcag	gggctttcca	ttgcatgaaa	gaatcctagt	31500
cttactgtag	tctccaaggc	tttacatggt	ttggctgctt	acctaccact	cttaacactg	31560
tcactctcac	accacagaca	ctctgccttt	ttttttgttc	cttgatatg	ccaagtctct	31620
tcccacctct	gggctcttgc	acttctcaag	cctggagccc	atttccatca	tgcttacctc	31680
cccttccaga	cttgagctcc	tcagctcttt	ctgcccagcc	caccacaagt	tgactcactg	31740
ttttaataat	gatggcctgt	aattatcttt	tctttgtatt	tgtttggttc	ttccacgaga	31800
atgtaaacctc	aatgagaata	aatgcctgat	ctgtcttatt	cacttcgcca	gtcatataaa	31860
tccataacct	ggaagagtg	ttctcaaaact	ttaatgtcag	ttagaatttt	ggggtcttat	31920
gagaacacag	actattgggc	ccaccttcag	agtttctgat	tcactagggtc	tggggcgaga	31980
cctgataaat	ttgcatacct	cataaattcc	cagggtgattc	tgatgctgct	gggtccagtaa	32040
acacctttga	taaccagtga	tctggaatgg	gggcttggtta	agcattttct	gtaaaaact	32100
agatagtaaa	tatttttagac	ttagtggacc	atgtgggtctt	ttttgtgaaa	ctgttcaact	32160
ctattgtttg	agtcagaaaag	cagccataga	caatatggaa	atgaacaagg	gtggccgtgt	32220
tccagtcaaaa	ctgtgtttac	agaaacaggc	agtgggctgg	atctagcccg	aaggccatag	32280
tttgccgacc	ccgatctaga	agatagctac	ttctgataaa	tatttatcta	aaagatcagt	32340
atgtgactgt	gtatgtaatc	tagaagacag	atacatgccca	gttgctggga	tgagtggtaa	32400
gtgacaaaatg	tgtggtccct	ggcctcataa	agttctcaga	gttatggagg	gagacagctg	32460
taataaccac	accagttagt	agtccagtaca	tttgtgacaa	gtgccatgat	ggaaaaacac	32520
aagggtgctct	gaaaggggtt	aacgggtgcc	tttggggaatg	aaaagtggcc	tctcattgct	32580
cttagctgac	aatgtttttg	tttactgag	gaaaaaaagc	aatcagaaga	aactttgttt	32640
tcttcccttg	tctagttttg	cctgcatcat	ccatccatac	ctgtactggg	ctttccctcc	32700
tgttagtgga	taaactgtcc	ttgatcctct	cctagcccag	cccttgctcc	ctgcattcca	32760
tgccctctca	agaacttggt	gaacatttac	ccccctctct	tttacatcat	cagtttctct	32820
cctggattat	tcttgccagc	atgcaaacat	gtcaccagtt	gcaaaaagtt	tctgtactta	32880
ttacgtccta	cttgccctacc	tcccattctt	tttttttttt	tttttgagat	agagtctcac	32940
tctgtcacc	aggctggagt	gcaggggcac	gatctgagct	tactgcaacc	tctaccttcc	33000
gggttcaagt	aattctcctg	cctcctgagt	agctgggact	acaggtgaac	gccaccacac	33060
cgagctaat	tttgtatttt	tagtagagac	ggacggggtc	tcaccatgtt	ggctaggctg	33120
gtcttgaaat	cctgacctca	ggtgatccac	ctgtctcagc	ctcccaaagt	gctgggatta	33180
cgggtgtgag	ccaccgctcc	aggccctatt	ttttcttttc	attatttctt	atcctcattc	33240
ttgctggaac	tcactctagtc	agactcttgt	tctccctcca	ccaccaaagc	tgctcttatc	33300

agagtcacaa	aagctcttct	tgatgataga	ttcagtgcat	tttctcagtc	ctcatcttac	33360
tgaatgtctc	tggcatttga	cacagttgtc	tgctcttcat	gggacacttt	cttctcttgg	33420
cttcttttcc	ttgaaccttt	ccagctgctc	catcatggtc	tgtggacaca	gaccttggct	33480
atttctatat	gtttctctgt	tcccccttcc	atthttgtac	tgatgatgaa	gataatgata	33540
actcatatat	tgagcatgta	ttacatgtat	taatacacat	aaacctttta	catgttttga	33600
ctcattgagt	cctcacacaa	cccccttctc	gtgaggtagg	tattgcttat	tcccttttca	33660
catactttcc	cagtgtacaa	cggctactca	gcgggagagc	cagagccagt	cccagggagt	33720
cattctgtct	gcaaacctct	gccctgcctc	gccttctgct	gactctcagg	tgctctctct	33780
ctccagcctg	ggccccctacc	ctgagctcta	gatgctgatg	atacacaact	actgcctgac	33840
atccaaatca	ctggcaggca	ccttacattt	aaatcatttg	aactggagca	gctagctcag	33900
gccacaaatc	caagtccact	ttagtttctc	tttttcttca	catcccatga	tcagatcatc	33960
agtagatcct	gtttgtctct	cctgtaaaac	atatactgac	tccatctctt	ttcaccacct	34020
ttgctgctaa	taacctgggtc	caagccacca	cagtgtctgga	cagtgtctgtg	acagcctcat	34080
gaccattctt	cttatttcca	tagttcctcc	tgagtcccac	agagaataat	gttttttaaaa	34140
catatcccag	ctctaaacca	tccagcagtt	tccattagaa	taatatcccc	agaccttacc	34200
atggtctata	aggccatctg	tactccattt	gtacacctgat	tacatctgat	gcatactcta	34260
cccgctctcc	tactctgcca	ttccatccac	acaagttttc	ttgcttttcc	tgaaatatgt	34320
ggtgccccct	tccatttcag	gaccttggca	cttgctgtta	ctatgaattt	gagtagaata	34380
accctgcca	aagacctctg	cctgcttaac	ctactcagtc	tagaagtctg	tctcccatte	34440
ttctccctgg	tagtctctaa	ccctatcttt	atctttcttc	atactagt		34488

<210> 69

<211> 9629

<212> DNA

<213> Homo sapiens

<400> 69

agatctttat	ggctctttat	ttctacctgt	tattcacttt	acacttgaga	gccccaaaggc	60
ttcactttta	gttgcttgct	atagtgacag	agatggccta	ggacccaagg	cttctcctga	120
caattagggtc	aggcttctcc	tcaccatgtt	acgtaagatg	aagctgccta	ctcttcactg	180
caatggtata	gaacacaagc	gaacagtttt	agaaaactgtg	taattagcac	tgggacaaag	240
tttatggcca	gaaactgggt	tttaacttcc	aactccctta	gaacaggatg	gaaacgtgct	300
gaagaacaca	ggcagccatc	aaatgaagca	agcattattg	tccattatt	tgtacatacc	360
tttctcaatt	ttaataaaaa	tcagcttctc	tgaaattcta	cgttatctat	tcattggcgat	420
atgccagtag	aaaacaatat	tcattggccac	ataatccctt	tatgtttatt	catggaaaaa	480
ctgaattcta	aatgtctcct	tgccactgga	aaacccagag	actgtctaatt	actatgacct	540
acagttacac	ttgaggtctt	catttctatc	aaaaaagctt	ttcttttccc	cctttccata	600
agaatgatca	cttcttaatt	tagttatgag	gttccgacca	tgtgaccaat	accatactac	660
aaattctggt	ttattttatt	ttatattttt	tggtagactt	ggggtcttgc	tctgtcccca	720
ggctggagtg	cagtgggtgca	atcatggctc	actgcagcct	caaactcttg	ggctcaaatt	780
atcctcctgc	cttagccttc	caaggagctg	ggactacagg	catgcaccac	aacacccagc	840
taattgtttt	ttaaattttc	aaagagacag	ggtctcacta	tgttgcccac	tctgggtctca	900
aacttctggc	ctcagcctcc	agagttgctg	agattacagg	tgtgagccac	tgcacctggt	960
gagataaatt	ttagaacctc	tgtctctact	aggtcaggag	actcgctatc	ctttaatttt	1020
tagataactg	gtactcatcc	atttaacact	gacataattc	ccttattttat	aaaggattca	1080
acaatatgtg	attctaatgt	accattaaat	ttaaatttaa	tactttttaa	cctggacata	1140
cttttttggt	aattcaatgc	atgctctact	gttgaacttg	taatttaaat	tacctcagca	1200
tgaaggctgg	agatgaacaa	agacaccagt	attaggatca	tgtgcataga	gagttctgca	1260
tactgaaag	atggatgcac	aaactgagag	ccagagacaa	tgcctcagtt	tggtgacctc	1320
gtcttaacac	aaagcagttt	catatagcac	caaacaaata	ttcatttttt	tttttttttt	1380
ttgagacgga	gtttcgctct	tgtcacccag	gctggagtg	agttgtgcaa	tcttgtctca	1440
ctgcaacctc	tgcttccggg	gttcaagtga	ttctcctgcc	tcagcctccc	aagtagctgg	1500
gattacaggc	accgcccacc	atgcccggtc	aattttttgt	atthtttagta	gagacggggt	1560
ttcaccgtgt	tgggcaggct	ggtctcaaac	tcctgacctc	aggtgacccg	gccgccttgg	1620
cctcccaaac	tgctggatta	cagacgtgag	ccaccacacc	cagcctaatt	tttgtatttt	1680
tagtagagac	gggtttcatg	ggtcacgttg	gtctcaaact	cctgacctca	ggttatccac	1740
ccacctcagc	ctcccaaagt	gctgggatta	caggtgtgag	ccaaagtgtc	aggattacag	1800

gggtgagcca	ccgtgcctgg	ccaatattca	ctgctgatgg	ggtcaataga	tgattttctg	1860
agcttttatca	ttataaacc	tataggttaa	aatttttagca	gatgccaaag	atccgtagat	1920
aggctcagtg	aaactggcca	aagacaggca	tccgttttag	gtaaaggaga	agcttaactt	1980
tcttgattct	ttttaggatt	cagtagacta	agcaaaaaat	aaatttaact	ctactcctga	2040
atctactttt	gtcctctgac	tcctgcagta	ccacaaattc	ttcagccaaa	ccttggcctc	2100
actctgcccc	ctctctcatg	ttacctccat	atgctttttc	aatcacaatc	ctttaaaaag	2160
gaaacatcta	gaccataata	ctatttactg	aacctactac	gtttgactct	tagctttact	2220
ttctcctttg	gggttccctt	cttcagaaca	aaattactgg	gcaatttaag	acaagggtgc	2280
ttccatgcag	lcttcatata	ttgctacgta	ttgtgctgag	tagactgagg	acctcacaca	2340
caatgcctga	gaaccatctc	agccagacca	gcactgacta	agagcttgaa	gtattggaga	2400
acttgaaaaa	gagcatctcat	gagttgaatt	ggctaattgca	aggttatcca	aaattgtgca	2460
agcagggagg	ccttcagagc	aagagctggg	cccttttcgc	ctttctcaca	ataacctcac	2520
caaccttccc	actaaaaatga	accaagggga	tcggctgtaa	aacgggtcat	gcccgtcact	2580
gaagagatct	gatccctcct	ccgtccctgc	gtcagagccg	gcgtcatcca	cgaatgcctc	2640
atcatcaaaa	tcctccatct	catcttgctg	ctcgtcagcc	agctcagtga	tgctcggaatc	2700
ggccgtggaa	aaagtggggg	aggggtgtcg	gtcggcaagg	cgctcgttca	cacagccgtg	2760
gaaaaatggg	gagctagaca	ccaggtaaga	gcocaattaa	cacagccagg	gagagaggaa	2820
tagttgggta	aacaggaagc	aataggtgct	aacaggacag	aatccactgg	ggaatcaaca	2880
caataaaaagc	aaatggaaaa	gcaaaaggat	aaaataagca	taaatcattt	gggtcaggtg	2940
aaaggggaaca	agggcaagtt	gaaaaagtta	tgtaaggact	aatccttaga	ataagaaaag	3000
caaaggaaac	acgtgagtag	accatcctag	gtaaatactg	tgctataaca	cgtttacatt	3060
ctccagttca	cataaaagat	cagcatccag	gcctcaaagg	acctactcaa	catcaaagtg	3120
aaacaagaag	gctttcagtc	tttactgaaa	ttctcacgtc	attttggagc	agaaacccaa	3180
atggatgaaa	tggcatatgg	caaagcagca	tgtgctttgc	tagggtaaga	tgtgtttggc	3240
caattcatct	ctttgaaaaa	ctactttgct	atcagagcag	agtggaaaag	atttacttca	3300
tttccacaac	atactatgac	ttcagcaact	cctttttacc	cagcctcttt	aaaaaacatc	3360
acagggtttt	ctgcaattga	aaaagcaatt	caaattctga	aatcataagc	tcaaagttaa	3420
atttccctgc	tttgaaaatt	tgaaaacctc	taagaacact	tgactcaata	tggactcata	3480
gaggcactat	gtgttttcat	taagtgtctg	aaataatgta	taaaaaaaaa	atgaggctga	3540
aggggactac	caaggtgcaa	ttaattttacc	cttgcaatga	ctaaagtggg	atgaattgct	3600
ttttaaaaaa	aagaaaaaca	aatcagatca	cgaagagatt	gtgtctgata	agctgtacta	3660
tgaatttaaa	ctgtgtagga	tacaggcgta	agttttcttt	tcctttctaaa	tttatcttaa	3720
tcaattacag	aacactttgt	aagttttaaag	tcagggaaga	tttaaatact	ttggctgaaa	3780
gttttagagc	cgaaaacaaa	atgcctgctg	aatataactg	aagggaaata	taccaaatga	3840
cgcagtggtt	gtgagtggtt	aagattatag	ataaggcctt	tttacacctt	tttttttctt	3900
cttaactttt	tatatattct	gctcaggttt	taaacactta	aaactaatca	ttatttttaa	3960
agaagacatc	aacaaaatca	tcacatacct	ccccacaagt	ttgaaccagt	ggaaccgata	4020
atagaaggga	tcgctgccag	tcacagtggg	ttcgcttttcg	tccttgggcac	tggaggccat	4080
ctccccctgcc	ctatcataca	tctctcgcat	caaattccagc	ctctgcctat	ttagtaaaaa	4140
caaagcacat	tgggttaata	taatgagatt	gcattaaact	ttcacttttg	aagcatcttc	4200
cgttcaagat	tttcttcaaa	aaaaaaaaaa	ggagttgctc	ccactgttta	atgttactaa	4260
aaagaatgaa	gccccaaaat	acagaaacca	acactcagta	tctaaagtgt	cttgattcta	4320
gagataagcc	atcaaaaagc	aagaatggcc	acctatcctc	taccgggtga	aaagtcataa	4380
gggggaatat	tgtaggtcaa	ctgtatgtga	catctcaaat	acactgagac	gggggaaata	4440
cctcattata	ctacatgtaa	aagaagccag	attataactt	ccatgtttat	tattgattat	4500
cctgaggtcc	aggatagaaa	aaataaataa	gttccaaatc	tgtaacagaa	atatgatgaa	4560
actggaatat	ttaaaattta	taagagggtc	tatggagggt	aaacttaaat	atctacaaat	4620
gtcagagtgt	gtgaggagtg	cattttattca	cttaaaaagaa	aacagatgga	tggtaatacc	4680
attggccaac	aacagcattt	agaaaagtaca	gggaagtgaag	caacagtggt	ctcagagaga	4740
ggagagctgg	agggagctca	cttgagcagg	tcattgttat	ttcctaaata	aaacaaccag	4800
cctttatgaa	tgttttcata	cttgagtttc	tcocaaagacc	aatagtgtgt	tgctccattc	4860
ttcaaatcct	gcacttctac	tgctaccact	gtgcgaggga	aaggcctgtc	ctcatgagtt	4920
ttttccatct	cagtgggaag	taattcagga	ggcaaaaggg	agtacagtgt	gtcagtcagc	4980
agaacaaaact	gaaactgcac	ctgaatagaa	agaataaacc	attgacaaat	ggttttcagc	5040
aagcaagctt	cagagatgag	acgatacaat	catacccaat	gggaaagagg	tcgaatgtgc	5100
tcaacaaaata	tcttgtgact	aactttctac	tgaaaaaatat	ggccacctgt	tagcagtcac	5160
agggaaataac	cctaacttca	aattaagcta	tttaaggact	ttgttttctt	agcctggcag	5220
tggtttttgca	catacgaaaa	tcttcttgag	gggaggcacg	gtggggacaa	ggttacactc	5280

tgtcaccag	gctgggtgca	gtgatgcaat	cacagagcac	tgtagcctcc	acctcctagg	5340
ctcaggtgat	cctaccatct	cagcctcctg	agtacctggg	actacaggca	tgcacacca	5400
gcttagctga	tttttaaaaa	ttttttgtag	agatgggggt	taaccacatt	gcccaggctg	5460
gtcttgaact	cctgagctca	aatgatccac	ccacctcggc	ggctcagatc	acaggcacaa	5520
cccaccacac	ccggcataaa	atctttataa	atacattttg	attgaatgaa	tgaagacttt	5580
tatagaattt	ataccagaga	acaaaaggtc	gaccacaaaa	tgcatatcta	gtccctcact	5640
aatgagagag	gatgaaaaca	cagcaagggt	tcccatttta	aattcagagg	attgcaacta	5700
ctgctcttaa	aagcatttat	ttggctgggc	acggaagttc	acacctgtaa	tcccagcaca	5760
ctagaaggcc	gaggcggaag	gatcacttga	gcccaggagt	ttgagaccag	cctaggcaac	5820
acagtgagac	actgtctcta	caaactgagc	ccagcccaga	aggtggaggc	agtagtgagc	5880
cataattgcg	ccactgtact	ccagcctggg	cgacagagcc	agatcctatc	tcataaaaaa	5940
aagtgtttaa	taaatatggg	tttataaaa	tggtttaataa	atatggtaag	tacttcacga	6000
cattgcatca	tttatttctc	cctaccacgt	tatagtttca	ccaacaatta	ttaaacaatt	6060
atttaaatatt	aattaaatgc	tatgcacagt	agtaagaaaa	aaagacagtt	actgccttta	6120
tttagtctac	ttgaggagag	gagtgggctaa	taaataatta	taaaatgaga	aaggctgcca	6180
agattatgaa	tgaagaacat	atcgtattcc	ctaaaactag	aatttagttc	taggagaaga	6240
taattaatttt	ccccaaagtt	aggtgggtcca	tgctcttacc	tactacacaa	tatggctctc	6300
cactgtaatc	ttagcagtga	agaaactgat	aaacacgggg	gcatacagaa	gactgaatct	6360
aaggtttggg	gtgaagtttt	ggtaatactt	acaaaaatga	ataacattta	ttgcctttta	6420
ccatgccaga	cactataagt	gctttatgca	tatgccattt	ttcattcctc	acaaaatccc	6480
ttgggtgccag	gtactgctgc	caaccccat	atgtagatgg	gggaatggag	gcacagggct	6540
aggggggatca	acaccactcg	tggagctggg	actggaaact	ggactgtctg	ggtccagggt	6600
gcatgtgctt	gtccactaca	cagcagtgcc	tctcagaccc	tagaggagaa	gcagatcaat	6660
ggcaaagggg	cataccaaac	ttagaggtgc	aaacttaata	acagaaaagt	ggaagaaaat	6720
taaaattatt	cagaaaccca	agagaagtat	ttttctatta	ctatgtttct	ccagtttttg	6780
taggaatata	gtctatttgt	aaaataagct	agaaaacatg	ttttaaaaa	tttatttaac	6840
aaaaatttaa	ttagcaccta	ctatgttcca	gccacatata	ttaaataaag	acatatataa	6900
agctgtttta	tagcaaaag	cagctgagtt	ccccaaaagg	aaaggttaat	tcaagggtgag	6960
aaccagatg	caccacagc	aggctcggct	ttgcctccag	ctctcctgtg	tcctcctgct	7020
ccataccttc	tttttcagtt	ccacactgat	ggcattggcc	tccttttaggt	acacggcatt	7080
gccccagagt	aagtcocgta	atgaagtaaa	ctgatgagac	ttccatttcc	ggaaggccca	7140
ttggggccaac	tcaaattcat	gctgtgtcca	aggaactgaa	agaatgaatg	atgcatattt	7200
aatggcaatc	ttacaactat	ataaaaatta	cacctctctt	ctagcttata	tcttttacca	7260
aggtgagggt	ttttccagtt	tctctccatt	cagctgcttt	tgtttctttt	tagtaaaagt	7320
taccaaattc	tggtgatatt	atgaaagcaa	tatatacatt	tcagaaaatc	tttaaaaaatc	7380
ctacttttgt	atttatttaa	aatagtacaa	caaagaaata	aatttttctt	ttttttaaaa	7440
aaagggtataa	catgtggcca	caataaaaaa	aaatactcct	ggctaggcac	agtggtctac	7500
gtctataatc	ccagcacttt	ggaaggcaga	ggtaggcgga	tcacctgagg	tcaggggttt	7560
gaggccagcc	tggccaacat	ggagaaacca	catctctact	aaaattacaa	aaattagcca	7620
ggcgtgggtg	cacacacctg	tagtcccagc	tactcaggag	gctgaggcat	gagaattgct	7680
tgaacccagg	aagcagaggt	tgcagtgagc	caagactgca	ccactgcact	aaagcctggg	7740
tgacaaagtg	agactctgtc	tcaaaaaaaa	aaaaagacaa	actcctgacc	tctgttacat	7800
tgtatgactt	catataattc	tttttttttt	tctgttacag	agagaaaaaa	ggtaccatct	7860
cacttattta	aaaataagaa	attggctggg	cgcagtggct	catgcctgta	atcccattac	7920
tttgagaggc	catggcaggc	agatcacctg	aggtcaggag	tttgagacca	gtctgacca	7980
catggtgaaa	ccccatctcc	actaaaaaca	caaaattagc	tgggcatggg	ggcgcatccc	8040
tgtaatccca	actacttagg	aggcaggagg	cggaggttgc	agttagctaa	gactgcacca	8100
ttgcactcca	gcgtgggcga	caagagcaaa	actctgtctc	aaaaataaat	aagtaataaa	8160
ataaaataaga	aatgtaatac	ataaattaa	agttccttca	aagttagttt	gaagccttga	8220
gattgccaag	aggttgggta	gaaaaacgaa	ttgtggtaag	tgttcatact	gcattataag	8280
gcaataagta	ataatgaaag	ccctaactca	actaagaaat	gctggaaaac	ctaagatagg	8340
caaacatgac	taagcaatat	gattagaaat	ttgccagaaa	tggcttcaaa	ttgaacagac	8400
tgtcttaaca	aagattcagc	tctatatttg	taatggatat	ctaaaagtca	catctacagc	8460
aatatgagag	acagtgcagg	tcaacttcct	aagggattta	aatgaacgtg	ctcagaaacc	8520
gtgcgaagg	ctaagaacac	catcactccc	atccccacct	cataaaatac	agcctggatt	8580
ctcaacactg	cacatctatt	caatcatctg	taaaactggc	cagtaaaatg	tcaataaatg	8640
atagggccaa	ctaagaggaa	tccagatttg	aatgactaat	attgataaat	ttgataaat	8700
aacttcaaaa	agatatcac	aggaaacttt	cggctctctag	atttcacett	cttctctctc	8760

ttcctcctct	tcagttggtt	ctgcagccag	agatcgggtt	tcaacctgct	tctgcaaggc	8820
ctgcaattta	ctctcatagt	cctgaatgaa	aagaaaggag	ataacatgta	ggagagggaa	8880
gaaataagag	ggcagggaaa	gagaaatgga	aggaatattg	ggggaagtag	agaaagcaaa	8940
ggacaaggaa	aagagacaaa	ggcaggaaac	aataataaaa	agacatacag	ggaaatgttt	9000
aggaaaaaaa	cccacaaagc	acacaagatg	gtctgtaatg	ggtaaatggt	aaaaagaaaa	9060
aactcactgc	agtatgtttc	tactccctca	aagactcaag	agttcttcat	ctggggtagt	9120
ggtaggagaa	agggggaatt	tttaggtgaa	ataacacgtg	tataccttaa	gcgttagaat	9180
atattcaagt	aatatcttat	atatcaataa	attccagaga	aaaacaatat	tgaaaaagat	9240
taaattcacc	agtatcatca	aaaatctcaa	ttatctaact	ctttggaagg	aaaaaaaaatt	9300
aagattgtag	actttgatgc	ttcctctttg	tgaaaaatta	ctatctttga	tcagtaggat	9360
gagtttagcc	ttcaggtaac	caaaagctca	tagtgctatt	aggactgaaa	taattttatg	9420
actgcattta	gttattcaag	taagacactt	tattttcaat	atgcaactat	aagatggatt	9480
actgaccggg	tgagtggtgc	cacacctgta	atcccagcac	tttgggaggc	cgaggtgggt	9540
gatcacctga	ggtcgggagt	tcgagaccag	cctgaccaac	atggagaaac	cctgtctcta	9600
ctaaaaatac	aaaaatttagc	tggccatgg				9629

<210> 70

<211> 10097

<212> DNA

<213> Homo sapiens

<400> 70

ccatggatgt	tctgacattt	gtctcctggt	ttctgtcttt	agggcatttg	tttacctgag	60
caatctgctg	tatcccgtgc	ccctgatcca	caggggtggcc	atcgtcagtg	agaaagggtga	120
agtgcgggga	tttctgcgtg	tggtgtgaca	ggccatcgca	ggtagggtgac	cctcttctga	180
aatgagagct	gtgagttcct	tgtctagaga	caaagcaggc	tgattctgcg	tgggtcacgc	240
ttatattaca	catacaaaact	gtggggagtt	tgtatgtgta	atatacagac	acatactttg	300
gagaaagcct	ttattgctcc	tttctagcaa	ttgttcccaa	gtatcacaaa	tagatcctgc	360
ttagtccaga	ctactgctac	tttgcaataa	tggggtaaag	agatttcctt	aaacatgtta	420
aagaacagct	cttgcattaa	ctatataaaa	gtcattgggtg	tgttggtttt	tttttttttg	480
agacagggtc	tcactttgtc	gtccaggctg	gagtgcaatg	gtgcaatcat	atctcactgc	540
atccttcacc	tccaggctca	gccatcctcc	cacctcagcc	acctgaatag	ctggaactac	600
agatgcacac	caccatccca	gctaattttt	aagtttataa	attttataga	gttggggtct	660
cattatgctg	cccagcatag	tctcgatcga	actcctgagt	tcaagtgatc	ttcctgccct	720
ggcctcccaa	aatgttagga	ttacgggtgt	gggccattgc	acccggccag	tcattggcct	780
tttattttgt	tttgagacgg	agtgtcgctc	tattgccag	gctggagcgc	agtggcacia	840
tctcaactca	ctgcaatctc	tgtttcctgg	gttcaagcga	ttctcatgcc	tcagcctccc	900
tagtaaatgg	gattacaggt	gcccaccatc	acaccaggt	aatttttata	tttttagtag	960
aaacgaagtt	tcaccatttt	ggccaggctg	gtctgaaact	cctgacctca	gatgatctgc	1020
ccacctcggc	ctcccaaagt	gctggattac	aggcgtcagc	cactgcaccc	agcctggcct	1080
aaataatata	tcttaactgc	ttcattatta	acaaaggatt	gttaggcctt	tgtcttgctt	1140
agttgttggt	ttttgttttg	tttggttttt	tctcagagta	cttgtaatag	acatttgttt	1200
ggctgttggt	ttgtaatgca	cgggtcaagc	tgatataagc	tgattgtggt	ggctcgtgcc	1260
tgtagtccca	gctacttggt	aggctgaggg	aggattgctt	gagcccagga	gtttgagggc	1320
aacctgggca	acatagtgag	accccatctc	ttaaaaaaca	attgaaaaaa	aaaaaagatt	1380
ttgggtatttt	ccatttttcc	atgatccagc	ctatgttctg	aggaaagaat	gtgggtcattt	1440
gctgtaatct	ttctgtctta	attcccaaat	gctgggctgt	gtccagtgc	ctttcagcct	1500
ttcccctatg	gaaacttggt	acacaatcac	cagtgttgag	tatatggaag	tctcctccac	1560
aagtacaata	taatatcttc	aaataactgt	tgggtattat	tgactattat	cttgccagca	1620
tggagacagt	caggatttct	aggatgaca	tttgaacaat	ctcaagaata	aaactgattc	1680
tttttttttg	agacggagtc	tcgctctgtt	gcccaggctg	gagtgacgtg	gtgcaatctc	1740
ggctcactgc	aacctccgcc	tcccgggttc	aagcaattct	cctgcctcag	cctcctgagt	1800
agctgggatt	acaggtgccc	gccaccacgc	ccggctaatt	tttgattttt	tagtagagac	1860
gggggtttcac	catgttggtc	aggctggctc	cgaactcctg	acctcgatga	ctgcccacct	1920
cagcccctca	aagtgtctgg	atgacaggcg	tgagccaccg	cacccggcct	gaaaccgatt	1980
ctttcttgac	tagtctcatt	tgagctgagg	aagttgataa	atctacatga	atagatgctg	2040
aagcagccca	tgccgtgtta	ctactttggt	atcattctct	catgccaaag	acttgagttt	2100

ataatccagc	aagagctttt	tccttccttc	ccctgtgtga	gtctcactca	attcttgcta	2160
atTTTTTTTT	ctgcttttagc	ggatgaagaa	gctcctgatt	atggctctgg	aattcgacag	2220
tcaggaacag	ctaaaatata	ttttgataat	gaatacttta	atcaggtgag	aaaccgtcag	2280
gaagaaggaa	aacctgtgg	aaagagaaa	aatgttcagc	attggagatc	agttctcctg	2340
taaaactgaa	aaatacaggg	tgctgggtgc	cacagagtag	ttcaatagaa	tatgggacat	2400
gtctaacaat	tatgaaggta	aagggtgata	gactcaatat	tcatatttta	ttcattgcct	2460
ttcctcagac	agccctcagt	ccatataatt	ttccagtcac	tattatttgt	tggacagata	2520
aacagaagta	aggcaactgg	ggaaaaatac	gtttttatac	tactttaacca	tgtatctgcc	2580
cctgcctttt	tttcagagt	acttttcgtc	tggtgcaatg	actcgtttctg	gtctgtcctt	2640
ggaggagtgg	aggattgtgg	aaggacaggg	tcagagttct	gaggtcatca	ctcctccaga	2700
agaaatcagt	cgaattaatg	acttgggtat	gtagacatag	tttactgtgc	ttggggacat	2760
tttcgacaaa	gggaaaatat	tgaccattat	caagggacat	agtggccttc	atcaactagg	2820
aatggaaagc	atgcccact	cctcctcctt	tgcattat	gaaccatctg	tgtcttcatt	2880
tgaccctcct	tagatttgaa	gtcaagcact	ttgctggatg	gtaatgtgt	aatggaaggg	2940
ttttctgaag	agattggcaa	ccacctgaaa	ctgggcagtg	ccttcacttt	ccgagtaaca	3000
gtgttgacag	ccagtggaa	cctcccagag	tatgcagata	tcttctgtca	gttcaagtaa	3060
gctgccccct	tgctctgct	ccagctagc	tgctaaccga	ggtgacatct	cctgtgcact	3120
gtagagtgt	ttacatgtgt	gagggattaa	cactcttgag	acaaagactg	atcagtctct	3180
gaaggaaaaat	actttcatca	ctcctatggg	agtgagaacc	agaaacctgt	cctggaatgc	3240
aacaggggtc	cctggcagga	ggagcatgct	gcacatcctg	ctgcagggct	ctgctgtgag	3300
cggccccctt	ttaccaggaa	tgtagggctc	gatcacataa	gcctgttgat	gagtccttct	3360
agtccctctt	atgttgaaat	gtcttattaa	taagcctgaa	agcaatgact	tatctagcta	3420
gcaattacgc	ctatttaata	ctcgggaaaa	ggaaaattta	aacaatgtaa	agaaggataa	3480
attctacatc	aactgaaaaa	agctagtatg	tagggaagat	gtgataacct	tcatttctca	3540
tctacatagg	acttgctcct	tcccgcggcc	ctctcaaacc	ctgtgctctg	gatgcttctt	3600
tctcaagact	gccccaggaa	aacatTTTTT	tgtgaatcct	cagttttaat	acctccaaac	3660
ttcaatttgt	cttttcagta	cttggaagg	gccacagtac	aagagactga	agtgtgacct	3720
ctccatacct	accgcctca	gtttgccact	ggtgccacca	agaggctgct	ttgggttctg	3780
ccatccctct	cccctcagaa	tgtgccttgg	ccgtcccatg	ggtcctagt	cagtttataa	3840
agcttttgta	taggttttat	cacagaaaat	tgagtcaa	gtgattttaa	ttaaatgtga	3900
tactatata	gtaagccact	aatatcattt	gctacaagtc	atagttgttg	gaatattacc	3960
cattgagcat	tgatttcacc	tatttaattgt	gttttcactc	atacctcaa	acttagggca	4020
ggatagtgtt	caccagatga	atctgttttt	tggaaactgtt	gctattattc	taatcaggca	4080
actgatacgt	tttatggaaa	actatctattt	tgtctgaagt	tgtctgaagt	gacaataata	4140
gtgagttgac	ctttgtccta	caatctccta	aaaagagcag	catctctacc	tgggtgttagc	4200
tctggggaaa	agggcatgtt	gcttctgttg	aaagcagcct	caaaggcgtc	ctgtgttttt	4260
atagtcgctc	ctctggcctg	tgccgggaag	gtatggctgc	agagcactgt	gaatgagttc	4320
acctgtcgtc	agggaaacccc	aggaatgctg	cggtgccagc	aatacaggaa	tcagggattt	4380
ggagcacttg	gcaaaagcat	gctagtgttc	tcagacgggt	gaactaattt	ggaagacaac	4440
aagttcatat	taccagtctg	tctgtccccc	cagttgaaaa	tagtttcttt	ttctccattt	4500
tttcttgatg	gaaggggtgt	ccttctgatg	gatttttcta	tctggcagta	aatctttgtg	4560
ttgggtcctc	tttaactgtg	cagttctttt	tatttcagac	taataatagg	gagagagaga	4620
gagagaacga	taccatctca	ctatctgtga	aaataactaa	atatagccca	ttgttttaac	4680
aaatcttttc	agagtatctt	ctgtgtgtcg	agacctgtgg	gaaaacgctt	gctgtctggg	4740
ggagagaggg	atataaatac	attattacag	tgaaatcatt	gctattaagg	aaaaaaacat	4800
tactagtaat	gtgggaacac	aaagctgcc	gggtaagtca	ggaaagactg	cctggaagag	4860
gtgacatttg	aatccacaac	agactcttat	gtaactatgc	catccacagg	ctctcgact	4920
aactgtggaa	gcttgagtct	gctaaatttt	gtctgtacaa	aatgacattg	tttttatttt	4980
tagtaaaaag	cttttacaaa	ggaagaggag	ttaattgaat	gtacttcttc	actctctcta	5040
aagcattctt	gcataacct	ccatatagct	aagtgtacag	ggtcagttaa	tttttcagtc	5100
atTTTTgaaa	taaaatctaa	aatgccctct	gtgcaatatg	gaaaagggtc	ttgacaagga	5160
aagtaataaa	cttaagaat	ctgcttaagt	ggaaatgctt	tttctgtagg	atccacattg	5220
ggctcttgaa	agagattctg	ataaaaccgt	ttaatgcatt	gttcacgagt	ctttttattt	5280
tttttatgaa	gctttttgca	tcgccatgat	gaagcattct	ccacggagcc	cctcaaaaac	5340
aatggcagag	gaagtccctt	ggccttttat	catgtgcaga	atgtaagtga	catggacctt	5400
tttgccaaac	atatgttttt	ctggtacctt	ggctttctca	gcccgggaag	ggtgataaga	5460
agaggtacaa	gtgcactggct	gtgcaggggg	agagtagaca	atagagggcg	tggctagagt	5520
ggtgaggtca	tccacagcgg	cctgagcagc	aagccttctt	gtctgtgtta	cagtgggcct	5580

agtgaatgtg	gggttcgtctg	ccaataaaaat	cttccatcag	tttgaatgca	atgagttggt	5640
ttagtggtttc	tgtccctagaa	aaataagcat	gcttaataag	agtttttatta	aaagtgaatgc	5700
attgtcccttt	aaaccctaag	atacttatgt	tgctcgattg	caataaacat	aaaaaatatc	5760
aaataccttc	tgtagctaaa	ttaagattta	gatctgtttt	ccttgcaact	gatagtataa	5820
ttaacacatt	aatgcccttt	acaactgtat	tcctacgtgg	agtaagaaaa	cagacccttc	5880
cctctcttac	gtgaaatttc	attcaaactc	tattccaaag	tcattatcct	catcacataa	5940
gctaataatc	actgagagtt	tatttttgtgt	tagtcaactgt	tctgagagtt	tttgtgtaat	6000
ttaatcttta	cctttatacc	atagattaag	ataatccctg	tgtagctga	gatgactgaa	6060
gcatagagca	attaaagtca	ctcatcaggc	tggggcgagt	ggctcatacc	tgccccggca	6120
ctctgggagg	ccgaggcagg	tggatcactt	gagggtcagga	gtttgtgacc	agcctggcca	6180
acatgggtgaa	atcccatctg	agacacgaga	attgcttgaa	cccaggatgg	gggggttgca	6240
gtgagttgag	attgtgccac	tgcactccag	cctgggcaag	aaagcgagac	ttccatctca	6300
aaaaaaataa	aaaagtaata	ataaaaaataa	agttactcat	cagtgttaca	agaggcagag	6360
ataggactta	agctcagaga	aatttagctc	tgggtattcag	gatattcact	actacatgaa	6420
actgtctctc	attctcttgc	taaccatgtc	tgctctctaa	agtaagagag	gaaaggagaa	6480
cttcaaagat	ggaacaagca	aacacaaaaa	atgccatctt	ctttttcatg	ttggtataaa	6540
tataagcaag	catgtatctg	ataaaccttg	atcagctgct	gtgcacaagg	atttgtcctg	6600
acaactgggg	aatgcagatg	aatctcagat	gctcccagtg	agcttcgaat	tacgataggg	6660
gaaataaaat	gcatacataa	acaccagtca	tgcaaagatg	aacatgagaa	aatattcact	6720
aaatgcagtg	ggagtggaga	aagggaaagt	tattttctatt	aatggaaagc	tatttttaagt	6780
tactttttgt	tggggaggat	agttgggtgg	agaaagggga	taggaagctc	cctgaaggat	6840
gtagtataag	caagaaaagg	tgtgtcaaac	ttggcattgt	gcctggcaca	taggccatag	6900
tcagtacatg	catggatgtg	ctggaagggc	cttccaggca	gggttgccagc	ctgggcccagt	6960
ccttggcaca	gctgaggaga	gagcagggtga	aaggagcagc	aggtgagtga	gtgagccaga	7020
atagtaagtg	tgggaaggac	aacagggggc	aagatcagtt	gaggcaaagt	atggaagatc	7080
ttgaataacct	gaagctggga	aaagttactt	tagaattaaa	aacaacatag	gggatccctt	7140
gttttttgtt	gcaagagtcc	tgcataagtaa	aatacccagc	agatactgga	cactcagcag	7200
cagtaaaaatt	gggcagggca	tagtggctca	tgccctgtaat	ccagcacttt	gggagctgag	7260
gcagaaggat	cagttcagca	catgagttca	agaccagtct	gggaaacata	gtgagatag	7320
gtctctacaa	aaaattgttt	taaattagcc	aggcatgggtg	gtgcatgtct	gtagtccatg	7380
ctactccgga	ggctgaggca	ggaggattgc	ttgagcccgg	gagggtgagg	ccgcatgagc	7440
cttgtttgcg	tgctacagag	caagaccttg	cctcaaaaaa	aaaaaaaaaa	acccaaaaata	7500
cgtactaaag	ttctgattga	agcaaaaatg	tgtattttct	tgtaatcttt	tcctaattct	7560
gcttggtctt	atattgcagt	ggagaccact	gaatcatttg	tggattacat	caaaaccagg	7620
cctattgtat	ttgaagtctt	tgggcattat	cagcagcacc	cacttcatct	gcaaggacag	7680
gagcttaaca	ggtttgacc	agataagcaa	acatttttga	tggtattggt	ttgattttta	7740
gtttctcaat	tgctggaaaag	gaagaaatct	tttgagggat	taagataact	aaataagtat	7800
tctatattac	cctgtttcct	ctttagaaac	ttcactatca	tcttatagcc	acctaatac	7860
tgatttttaga	tagagcaaat	taaattttga	ccaggtgacc	tcaaatacca	tctttttgta	7920
ggaagagact	ttgaatatgg	tagaaatttg	aggtaatagg	aatataacat	gaaaattggt	7980
aaaaattggt	cctaattgcc	acagctttat	gaaacagaag	ctctaagtac	agtcatcaca	8040
actgctgagg	aaagcaacag	tgggcctttc	tgatgatggc	agagtgttgg	tggtggcaga	8100
agaatttttt	tatttattag	ctaagactta	gagggagaca	ttttttaatg	agatttagcc	8160
tgtttcacta	tctaggatta	tctctattat	ctggtattat	gccagagttg	aaaatggaaa	8220
agtctgcttc	cttaaaggga	attaaaacat	gctattgata	ccaacatcca	actctttgta	8280
gtctttttct	ttctcttgaa	aaaacagggt	ttattgattt	ctacactgca	aatagtcatt	8340
acaaaaagtt	ttttttcttt	taaataaatt	cacacaaaga	gaattagaaa	gcgatggtaa	8400
tgaccagcaa	gaggaataat	aattacgttc	atcttaatgt	ctgtgtgcca	gttctgttta	8460
cgttaatggt	ggaaaactcc	aacttggaat	ccagaacttc	aaatctgcaa	atagaatgtc	8520
ttgagatagg	cacgtggaag	tcaaacagtt	tctctctttt	tccctgcttt	cagaagctat	8580
acataaaaatg	ttgttgccct	ctgtactgtc	acgaactttt	tacgtacatt	ctcactccta	8640
cttggtgaaac	ccctaaagag	aaggaaaattc	aatttgcagt	ccagcacaaa	ggggagaaatt	8700
tctaaaaataa	ataactcttt	atagtcttga	tctttgtctt	cctttctttg	cagtccgcct	8760
cagccgtgcc	gccgattctt	ccctccaccc	atgccactgt	ccaagccagg	tgagcactcg	8820
ctccgctttt	tgcatgatga	tctctttgtg	aatacatgtc	ttattctgaa	tgacttttca	8880
aatagaagtc	atgtttgaa	tcctattctt	ctatatatcc	acatgtattc	ctgctcctct	8940
tgtatgtatc	tagtaggaac	tagaattcct	agttcctgat	ttaaaataag	aagtaaaaggc	9000
tgggcgcggg	ggctcatgcc	tgtaatccca	gcactttggg	aggccgaggc	aggtggatca	9060

```

cctgaggtca ggagttcaaa aacagccaga ccaacatggg gaaaccctcg tctctactaa 9120
aaatagaaaa ttagccgggc atggtggcac acgcctgtaa tcccagctac ttgggaggct 9180
gaggtaggag aatcgcttga accggggagg tggaggttgc agtgagctga gattgcacct 9240
ttgcactcca gcctgggcaa caagagcgaa actccgtctc aaaacaatat aaaataaaat 9300
aaaataaagt aataaaaataa gacaagaagt aagaaacaat aggggggcctt atctacaaac 9360
tctctgggtct tctatttgca gattttgata atcactctgt tcctaaatct ttctgctttg 9420
catgtaactt cccataactg tcaggggact aggcatttct ttgcatagta aattttattct 9480
gtatgttcag tgatcttggt ttgatttttc tttatttctg tcctttttcc tcattgccta 9540
ttcgccaaat tcccacccca cctgtgtctc actctccacc ctctgtattc cccatcttca 9600
tctgccttca gaccatgaga gaaagattga gctgattcgg tttctcgtgt ctggctatgt 9660
gaatgtgcat atgttggaca cattttctga gcacgccagt gtgcttgcat cctccgctat 9720
tgccaccttc caggatgagg ctgacccatt gccgcctttt ctctttctgc cagttccag 9780
ctgccagagc gagaggttac ccaaacgaga tgggttagtag ctgaattagc tccaccttag 9840
atgtagaacc atcctcaggc gcttgtcctg aagcctggct ctctgcatat gaaacactga 9900
catttccctt tgcaacttga gctgaatgta gagctcagca cattttcaag gttgtatcac 9960
attttcttct tagagatttg ggaagcagct tctctacatg tgctctttc acatcaccat 10020
cgcagtggg gaggccttg catttgtttt tatggattct ttgcaatagt atttttaatt 10080
ttgaagattt tactagt 10097

```

<210> 71

<211> 13646

<212> DNA

<213> Homo sapiens

<400> 71

```

agatcttact cttaggacag aggcaagggg ctgtatcagt taatataaag ggtaggagta 60
aatgttatcc taatgttctc ctatatgtaa ttctgagaac caccatcatg gtcatcattg 120
ggaaacactt attagttcc tactatgtgt aggatactgt gttaaagtgtg gtatgtagtt 180
gttagtagtg acagtgcctt gaggaatttg acttttcata gacagactta tgatgtgatt 240
acaagttgca ttatgagggg gaggtagtta cagtaattgt ttctactgaa ttaattgctt 300
tctgaatctt aaaaaaaact atagtctgaa attatctgtg tttcttatct cctgtcaatt 360
gccattgcac tttcacatta tttattgaat acttaatatc aaggggctgg atgcaaccaa 420
aagatgttac tgtcctttga ctactcaagt ctagagagga ttgagacata gatgtgtgga 480
aaggatgagt aaatgcaaat gactgtatga ttaaattgcca gcatgggtga gaaagacatg 540
ggatcagaat ttatcaaaac aaagaccacc aggggctaag ccttgcagat gaagtagcac 600
ttagtttttt ctttgcgtt tctatttttt aggtatatcc cagctgtggg tgaccacaca 660
gcaggcttgc cttgccaggg gacattttttg cttcatcagg tactaatgag ggacaaaaac 720
aggcatcgga gggaacactg aaaagaattt agaataagag acggaattct ttcttattct 780
ctgttttcat cttatttca gagggctggg cctgttgtca tttttttttt 840
tttctgtgtc tgtctgtaga tatttcttcc tcagaccttg gcttatattt atccttgcctt 900
ttatatgtat ttagaatagc tattttgaaa aatattttgt ttcattcaat tactctaatt 960
tgtgtagctc ctatgtcact ttttaatactt ttcatttctg gatgtttgga agctctgtgc 1020
tttcacacca gaagtctta ataggaatag aggatgaagg tttcaatgga ctaaaaatct 1080
ggttatgaaa cataggtccg ctttttgtaa atcaaaaagta ggttcagtca gtgttcaaaa 1140
gtacttaaga cccaagtggg cataggggct agggatacca tacatttggg acatacaatc 1200
agggcatggt tgaatactta ttatacaagg ggctgggatg cagccacata atctcctgtg 1260
acagattatg gttattctta aaaccataga gaaaaagaat tttttaaaaa agaaaagaaa 1320
accatatcag aacctgactg ttccttagtc cctgacacat ctccctttgt tttgaataac 1380
aatgtggata gcattttccg tctttccaca cctctccttc ctgctcatcc ccatgccat 1440
gccatacagg ccagaaaaa gtagacgaga ggagataata gattgcttca gctaaattgc 1500
aacctgctt cattacctag ggcattccagc gaaggatcac agtgaccatt atccatgaga 1560
aggggagcga gctccattgg aaagatgttc gtgaactggg ggtagggtgag tacgtttcat 1620
cagccaagga tagaaccagg acttacagag attttttttt tttttgagat agggctctgc 1680
tctgtcacc caggctggagt acagtgatga gatcatagct ccctgtagcc tcaaactcct 1740
gggtcaagc aatcctcctg cctcaggttc ccgagtagct gggaccacaa gtgtgaggca 1800
ctgtgcctg ttagagatgt tattcttccc acatggaatg tgtagaagac 1860
catattcgga aacacagact atggagatgc agaggccttg agtttgaaac tctgtattcc 1920

```

tgttttcttcg	ctctgtcatt	agtgatatgt	tatccaacta	actaactcag	ttaccagggg	1980
atgggttctgt	ggtagagtct	gtgagagggc	ataaaagaaa	tctctgctgg	ctgggtgtgg	2040
tggtctcatgc	ctgtaatccc	agcacttttg	gaggtcgaga	tggtggatta	cttgagccca	2100
ggggttttgtg	cctggccaag	gtagcaaaat	cccactctcta	caaaaaata	tgaaaattag	2160
ctgggcatgg	tggcacgcac	ctgtagtctt	ggctactcgg	gaggctgagg	tgggaggatc	2220
gcttgaactt	gggaggtgga	gggtgcagtg	agctgagatg	gcaccactgc	attcaagcct	2280
ggacaacaga	gtgggactcc	gtctcaaaaa	aaaaaagaaa	agaaaaatct	ctgctaattg	2340
tgagcttgca	ttttagttag	ggagacagca	tatatatgtg	cagaatgctt	tgatgaataa	2400
ataccaaaat	gaggacaaa	gaaaatctgt	gctaagagag	ttaacagtga	aaacaagcca	2460
ggaggactga	atagattcaa	gaaaaattag	agggtttttt	tttttttccc	agacacaagc	2520
attttgagta	agagagtcag	gaatatgtct	aacatgcaaa	tgacaagaaa	ccccatggcc	2580
agagtggaga	aagtaaatta	aggagtattg	gctagatagt	gtaaacttta	gaatgacagt	2640
ccgaggcaag	agtttggaac	ttttgttgcc	atggacctct	ttggcagtaa	cgaagcctta	2700
gaattatgtt	ttcaaatgtg	agaaataaag	tatttaggat	tacaaaggaa	accgataata	2760
ttgaaataca	gttggttaaaa	cattaagctc	ttctttactg	atgcatgaaa	taacaagatt	2820
tagcagttat	tctaattacc	ataatttcca	agtagtgatc	aatgaaaaag	atatcttgtg	2880
tccaggcacg	gtggctcacg	cctgtaatcc	cagcacttta	ggaggctgag	atggccggat	2940
cacaagggtca	agagattgag	accatcctgg	ccaacatggg	gaaaccccg	ctctactaaa	3000
aatacaaaaa	ttagctgggt	gtggtggcgg	gcgcctgtag	tcccagggtac	tcggaaggct	3060
gagacaggag	aatcatttga	acctgggaga	cagaggttgc	agtgagccaa	gacagcagag	3120
tgagactctg	tttaaaaaata	aataaatagg	ccgggcgtgg	tggtcatgc	ctgtaatccc	3180
agcacttttg	gagggccaaga	tgggcggatc	acgaggtcag	gagatcgaga	ccatcctggc	3240
taacacgggtg	aaaccccgtc	tctactaaaa	atacaaaaaa	attagccagg	cgtggtgtgtg	3300
ggcgctgtga	gtcccaactg	ctcgggaggg	tgaggcagga	gaatggcatg	aacctggagg	3360
cggagcttgc	agtgagccac	gattgtgcca	ctgcactcca	gcctgggcaa	cagagcaata	3420
ctccatctca	aaaaaatata	taaataaata	aataagatat	tttgcatatg	gaaacatctg	3480
tggtttctac	tggggacaga	gtcacgggta	ctggccaatt	cttctgtggt	ttattgcctt	3540
cctttgtgat	tgaaggagat	gccaattttt	agttaaaggt	ttgtgaaaat	aaagatgtaa	3600
tttttttccc	catccaagct	caaggaccct	ttgaattctg	tccacagagt	gcttgtgtct	3660
ctctggacca	gattaagaac	cttggggcca	ggcacagtgg	ctcacgcctg	taatcccagc	3720
actttggggag	gccaaaggcag	gcggatcact	taagtccagg	agtttgagac	tatcctagac	3780
aacatggcaa	aacctgtct	ctctacaaat	aagctgggtg	tggtggctca	tgccatatagt	3840
ctcaactact	caggaggctg	aggctggaag	cttgcttgaa	cctgagaagt	cgaggctgca	3900
gtgaaccatg	atcatgccac	tgcatgacag	aacaagacc	tgtcaaaaaa	aaaaaaaaaa	3960
agaatcgttg	gaaggagat	tatgttctct	cttgtctggg	gcagcagtgg	tagtagcttt	4020
tcaatatttt	tcataataaa	tttttctttt	tttaatttag	tttttttttt	aactttattt	4080
acaaagtact	gaatgtcctt	tgacaaaata	atgtttatat	ggaaccctaa	taccgaaaca	4140
gaagagatgc	tttctgacca	gagaaggaga	gggaggatgc	agaggcagca	gttactatgg	4200
cttctctgaa	ggatcctatg	atataatttt	agtttggttt	attaacaaac	tctgatgtag	4260
tatttaccac	atgccagggtg	cttttctgaa	tgctccaaaa	atactagtgt	gtttaatcct	4320
catagcaacc	atatatggaa	ggaattgtta	ttctcgcttg	acatatgagg	gaactgaggc	4380
tcagagaggt	tgagccttag	gctcaaagcc	tcacaggtgg	taggagttgg	aaccaggcca	4440
gtccagcact	ggaggccaag	tccttaacgt	ctatgcaatg	ctgcatccgc	tagtggttaac	4500
ttgaaaacag	agtgtaggat	tttgagcaag	aaaggggtgt	aataaagtca	gcatggccag	4560
gatatggtggc	tcattgctgt	aatcccagca	ctttgggagg	ccaaggcagg	aggatcgttt	4620
gagctcagga	gttcgagacc	agcctgagcg	acatagtggg	gccccgtctc	tacaaaaaaa	4680
taaaaataaaa	taaaatagct	ggatgtgggtg	ctgcaggcct	aaagtcccag	ttactcaggt	4740
ggcttaggtg	ggaggatcac	ttcagcccag	gaattcaagg	ctgcagttag	ctatgatcaa	4800
accactgctc	tccagcctgg	gagacagacc	aagacattgt	ttcaaaaaaa	aaaacacaaa	4860
aaaacaagaa	actgtcagtc	agtggcttca	gaagttgctg	ttaggtgaga	gtggaatgga	4920
ttggaacggg	gaggtgtgaa	tagcaggtca	gaagttgctg	ttaggtgaga	gtggaatgga	4980
ttggaacagg	ggaggtgtga	atagcaggtc	agaagttgct	gttaggtgag	agtggaatgg	5040
attggaacgg	gggaggtgtg	aatagcaggt	cagaagttgc	tgtaggtgga	gagtggaatg	5100
gattggaacg	gggaggtgtg	aatagcaggt	cagaagttgc	tgtaggtgga	gagtggaatg	5160
gattggaacg	gggaggtgtg	gaatagcagg	gagaccagtt	aaatggctgt	tgaggttccc	5220
agaccagaga	ggaggtggcc	ttttgtgatc	agggcaatga	tattgtgaat	aaaagtgggg	5280
atgaatgtgg	gaaactcttt	gaataaagaa	tcaatatggt	ttcatagtta	actcaatgtg	5340
ggaagtaatg	gagtcagacc	gtggaggacc	ctacaggtaa	ccaaatgacc	cttccagctc	5400

ctgaacttac	acagagattt	aaaagttctt	tttgggctta	atgaattcat	gttttgtttt	5460
caaattgtgt	cgtgctctgt	ttttttttat	ctttctttta	ggtcgtattc	ggaataagcc	5520
tgaggtggat	gaagctgcag	ttgatgccat	cctctcccta	aatattattt	ctgccaaagta	5580
cctgaagtct	tcccacaact	ctagcagggt	ggacaccag	agcagtgtga	agaagtcac	5640
acttgaggc	gttaattggg	acaccgttag	gtgccttatt	cattaatgac	tcccagttcg	5700
gacaaagaaa	ttaactccct	tctcccttct	agcttcaaaa	atctctttat	ttcttcacct	5760
gctgtgtgta	ctctccaaaa	agaaagaaa	aaagtattgc	agatatttgt	atgtgatcag	5820
ttactcttag	agaatggaag	tgatcctgtc	ccatgtgaag	tttgaataga	tgtaacaagt	5880
gataaatgaa	aattggagaa	agaaaacagt	atattcccca	aggattttaa	agtacgaatt	5940
aattattgcc	aagattaaat	tttttctgt	gaaatgggtg	ctgtggagag	aaaggtttct	6000
ctcactcccc	aagtatcatg	gaaatgtgcc	ctctgagata	aaatgaagcc	tcttgtgtta	6060
agtctttgct	gctgtgact	ataggctcca	ttatccttag	tatttgtttt	tcatttatgc	6120
acaaaagcga	taaataatat	gaactcttat	gaccaagatt	ggctgccata	aataatagat	6180
tttactttgt	tttttatttt	aatgttttca	cttaaaatta	tcttttataa	tcaggtgata	6240
acagacagtt	cgtaaagtac	atagccattc	tgttttctct	tgtaagacta	gaactaaacc	6300
agctgggact	ctcttacctc	acccaggaag	ggagttctca	ttgtctcaga	ggctccgtct	6360
ctatatcccta	ggggctggga	aacaggagcg	gctgcctctt	ctaattgtggg	ctgagcacac	6420
tgcttcccca	ccacaggact	ttgctgtgct	tcagtctgct	cctgaaaaac	ttgtttacat	6480
ccatgttgag	aggagggagg	gaaggaataa	gacgataggc	agaaatggaa	tgaaaggttt	6540
ggaccaggat	taatttcttt	ctgttgtttt	cttgtattat	agtttaccat	aggaaagaga	6600
aaaaagaaac	aaacttctgt	ttgctggcag	gggctgtgga	gaaagagggg	aggagtgaga	6660
gggtacatat	gtatgtctgg	ggagggggag	tggcagaaat	aaagaggggt	gctttgacta	6720
tccatgggca	aaatcacgag	caatactatt	tccctgaagt	cagcagtaat	tctgcatagc	6780
tttctgtttt	ctgccaatgt	tcagccgggt	tttaccacca	cattttcttt	gtagctatga	6840
aaaatgtatt	gtaaaatttc	ctagggtact	tagtaaaata	tacagggaaa	gatgggcttt	6900
ggttgaaata	ctggttattc	taattttgcc	tccattagag	taactttaag	aagtccttta	6960
attcacgccc	aacaacaggt	caggtgtctc	aagaaatgaa	tttggttttg	ttagaagcag	7020
cttatcttgt	gagttagaat	gagttcatca	aaaaaggctg	aagtcaagaa	taacaacaac	7080
aacaaaaaac	accttaaaata	tttctgttct	cattttaaact	atataaatct	acattaattt	7140
atcaaacttt	tgctggaaag	ccatggcctt	ttcttttaatt	ataagatcat	ttactggagt	7200
tctgattgtc	tttcttgcaa	aaccacaccc	ataattcatc	atctatgact	ttcagtttgg	7260
tgagagcaaga	attagaaacc	tgtgaagaaa	atctaagttc	aaaatccttt	aaatttttta	7320
tcattttatta	acattaatca	tttaaacatt	ttatcatttt	cccctttctt	ttacatttgt	7380
ctcacccaaa	cttaaacagtt	atttttaaac	aactcaccat	tttctaacct	tttgaaaaa	7440
ttcaacttag	ttttcacagg	aacaaaaatt	atztatgttt	tcataatttc	ttgatttgcc	7500
taatgtttta	tgaagttaga	taataataat	aagtacaact	ggcataaaca	gatttgggac	7560
cagatactac	tgacatttga	taagcactca	actcttcgga	gcgaagtgtc	tgggcaaatg	7620
agacatcttt	gtagttttaga	atgctcaagg	agaactagcc	atcaatctgt	atatttttagg	7680
gatatggaaa	acataggtta	atatggtaag	tggcaaaatg	gagtttggtt	aagagaactt	7740
tcgttctgtt	tgtctaagggt	ttaatgttta	tacctgcaat	tacgttatat	ttgggtatat	7800
tatgtgtgta	tcttagagggt	ctttgctaatt	acattgatag	tggggtataa	ttgacaaggg	7860
accattcatt	attccttttc	ttcccagtc	tacatttatg	ttaatgcatt	gacttggttt	7920
tcccttaact	ccacagcaac	ttcctattat	tctcaatact	aagtcaccac	tgaaaggggt	7980
actgatgggt	gtggtctcca	ctttccctct	tatgtctggc	attttccctt	gttggaagtc	8040
tcaggagagg	gacccatgtt	attgtaagtc	ctctatggaa	ttgtgttcca	tgggattctg	8100
tgtaatttgt	ctgtccactt	gaattcactt	gtcttatcag	caaattttgt	cttctttata	8160
tatatatttt	ttctgattct	ctcccttatt	tcttttgttt	ttttgctgca	ctaactaaag	8220
ccttttctat	gtttttgcag	gctctttctt	gataaggata	ttcctaggta	ttgtctgttt	8280
gcttttttgc	acgtaggatt	ctagtttatc	agaatgcttt	ctgtcttatg	ttgctttgcc	8340
attttaattt	tgtagtcccc	tccccatgta	aacctactgt	acctaggata	gagtagaccc	8400
tgttctgtac	cctaagaagc	gtatagcttc	ttaaatgatt	tttagagttt	caaattattt	8460
tttcattcca	tttgctaaac	ttgtcagttt	tattctttaga	ctctttcaag	ttttcctctt	8520
ctacattaca	aagtagaatg	tttctccctt	catttcatac	agaatctcag	gttttgtttt	8580
ctgttttcc	ctttatctgt	cttctctccg	tcaaaagcat	gaaggggtta	ttgctttata	8640
aaacctgagt	ccattgcagt	cttgcaaaac	tgttcacttt	cttctctgtt	ttgtcctgtg	8700
tggtaataga	gacaaatttg	gctatttgga	tactgtagtc	tatgagaaat	attttatata	8760
tattttttta	catttatctt	tctcctgtca	gggctgcttg	ttttatctgt	ttattttctt	8820
cttttggaa	aggaaaaatc	ctggtttggt	attaaaggaa	gtttttttaa	aaatctgtct	8880

catttaggga	agaaaattga	aggaagtgat	acatgacaat	ataacctaaa	atgttaaaaa	8940
aaatacaaca	taaacgggct	gggctcagtg	gctcacacct	gtaatcccag	cacttttggga	9000
ggccaaggcg	ggtggatcac	gaggtcagga	gttcaagacc	agcctggcca	agatggtgaa	9060
accccatctt	tactaaaaat	acaaaaatta	gcctggcatg	atggtgggcg	cctgtaatcc	9120
cagctactca	ggaggctgag	gcagaggatc	gcttgaaccc	gggaggcgga	ggttgcagtg	9180
agccgagatc	gcgcactgc	attccagcct	gggcgacaga	gcgagactct	gtctcgaaaa	9240
aaaaatacat	aaacatattt	atatatttga	ctgatgttac	tgatataatg	attttatccc	9300
tcaatttgga	ccccattcag	tttacatttc	agagattctc	ctaatagaact	caaaaagggtt	9360
catcagatgt	gaccatgata	taagaagggtg	gcttctgttt	tgttttcttg	agacgggggtg	9420
ttgctttggt	gcccaggcta	gagtgtagta	gctataacctg	cagatgcttt	aaaaaaagaa	9480
aaaaaaatgc	ggccgggcac	ggtggctcac	accgtaatc	ccagcacttt	gggagaccga	9540
ggcggggcgga	tcatgagggtc	aagagatcga	gaccatcctg	gccaatatgg	tgaagcccca	9600
tgtctactaa	aaatagaaaa	attagctggg	cgtggtagca	tgtgcctgta	gtcccagcta	9660
ctcaggaggc	tgaggcagga	gaatcgcttg	aacctgggag	gcggagggtg	cagtgcagca	9720
agatcggtgcc	actacactcc	agcctggcga	cagagctaga	ctccgtctct	aaataaataa	9780
ataaaataa	aaataaataa	agtgcggtag	catgatacata	gctcactgca	accttgaatt	9840
cctgggctca	agcagtcctc	cctcctcagc	ctccgaata	ggtgggactc	cagacacgtg	9900
ccaccatgcc	tcgctaattt	aaaatttttt	tgtagagaca	gggtctcgct	atattgcccc	9960
cgctggcctc	aaattcctgg	cctcaagtga	tcttccact	tttatctccc	atagtgtctg	10020
gattacaggt	gtgagctacc	acaactgacc	agaagttggt	ttttaattgt	tcataaataa	10080
taaattcaaa	ggaatatatc	cttcaaagca	gtcaccttga	aacctgtttt	tcctctgatg	10140
ctgctgctgt	tcagaacatc	ttgagaaatc	catttgggaat	tacttctcac	caccttagga	10200
ggcatacagg	aaaatatgtc	ttgggattca	gcctgttttg	taacctaaa	ttctattgcc	10260
agcttgatta	aattgacatt	tctccccagt	cttggttgta	tttcttacia	ccacctctca	10320
agaattgcc	gtgtaatggc	tcacacctgt	aatactagca	cttctctact	aaggtaggaa	10380
gatcacttga	gccccagagt	tcaagacctg	cctgggcaat	gtagaacttg	tctctaaaga	10440
aaaaaaaaaa	ttaattagcc	gggtgtgggtg	gctcgtgcct	atattcccag	ctactcagga	10500
ggctgagggtg	ggaagatcac	ttgagcccg	gagttagatt	gcaccagtgc	actccagctt	10560
gggcaacaga	gcaagaccct	tgtctaaaaa	taaaataggc	caggcgagct	ggctcacacc	10620
tgtaatecca	gcactttggg	aggccgaggc	gggtggatca	cctgagggtca	ggagttcgag	10680
accagcctgg	ccaacatggt	gaaaccccat	ctctactaaa	aataaaaaaa	ttagccagac	10740
ttggtggtgg	gcgcctgtaa	tcccagctac	ttgggaggct	gaggcaggag	aatcgcttaa	10800
acccgggagg	cggaggttgc	agtgcgcaa	gatcgcacca	ttgcactcca	gcctgggtga	10860
caagagttag	actctgtctc	agaaaaataa	tataatgttt	tttaaatgga	tttaaatgga	10920
attaccacct	ttggtgggta	ttctaacaga	acttgctgca	gcaagtccca	agccaaaaaa	10980
aaaaaaaaag	aaagaaactt	tttttgacaa	aagaaaaaaa	tgaaagaaaa	atttttccct	11040
caatacagga	agactttagt	ggagtcaaaa	tttcttttgt	gttaaccagg	tttctgcaag	11100
tgaaattttc	tctttatggt	aagtgaagc	ttagcctgaa	aacagaaatg	tgaagaggct	11160
tttttagaca	agttcaaaac	atttgcctca	gttgaaagag	tcagtgtcat	gaaacctcat	11220
cagtggctcc	aggaggtgcc	acgttatggt	ttggaaactta	atgaaggcag	cagcattgat	11280
agaaattttc	gtcaaatatc	accaaagtca	taaatgccgt	cactctaaga	agaggggttt	11340
atttaacttt	agcatggatg	tatccagcct	ctgaaatggg	acaaataagc	cccggccctt	11400
ctaggtactt	tgacaaaaac	aggaacacaa	taaaagagca	gacctctgga	ggctgaggca	11460
ggagaatcac	ttgaacccgg	catgaggagg	ttgcagttag	ccaagatcat	gccaccctac	11520
tccagcctgg	gtgacaaaag	caagactctg	tctcaaaaaa	aaaaaaaaaa	aacagatctc	11580
acaatgatac	agtcagttct	caagtggcat	ctggtgaagc	agtggatgtc	gtcaccagct	11640
attagaatat	gtcttaaac	aaattaaaa	tttactttac	acagagtttt	atggacacat	11700
gaagggtttc	ctcctgtgcc	caggagagccc	aagaactata	gaaaggcctt	cattgtccat	11760
cattttctgt	cctgtttggg	tcacttggtg	gctttgtctt	tgacttggtt	gttgtttctc	11820
tatcttctgt	gtctttgtag	agaattttct	tgaccacac	tcactgcctc	aaagactaga	11880
catttgagag	agtattaagt	acttgaagaa	gacttagatc	tagaagcagc	tatgttagat	11940
gatcagacct	catacactgc	cacttggaag	atgaggtgtg	gtcatggggg	tcagtttcag	12000
aaatgtgttc	tctctgttga	tcgtttctgg	aggaagaaac	atggggatgt	gttttagaggg	12060
aggatatgcc	agctacttat	cataggaagt	ctagaaaagg	cagccatagt	gaggtcacta	12120
tttgaaaagg	agtaagaagg	aatgtattgg	gcaggaaaga	gtgtgcatag	actcttctag	12180
gtgaatcagg	tgagctgtgt	tctatctgcg	gagaactagt	gatgggtggg	cagaccaggc	12240
atcttccct	ccactgttca	taggggtctg	agaagggaaa	catggggcag	aattgggaat	12300
caatctgtaa	cactgctttt	aaactaagt	ctgtatttca	cattagactt	gcagaactgg	12360

aagatttaaat	gtcaattaga	gttaatggtg	ttttaccagt	agaaaaaaaa	cgatattaga	12420
acaataacaa	caaaatagtt	tgtgggtatc	tattaaatta	agtttccatt	tgttacataa	12480
atgtaagatt	aatttttcaa	atggcctttt	tttttaagct	aacaaatggg	atgtgtctgg	12540
ctctagtgtt	aacaatttat	tctcttttac	tgaacatca	gttaagaata	accttgtatt	12600
cttttattta	aaataaggct	ctcgccggc	acagtggctc	acacctataa	tcccagcact	12660
ttgggaggcc	aagggtgggca	gagcgcttga	ggtcaggagt	ttgagaccag	cctggccaac	12720
atgggtgaaac	ccctcctcta	ctaaaaatag	aaaaattagc	tggcgtagt	gtgcgtgcct	12780
ataatcccag	ctactcagga	ggctgagtc	agagaatcgc	ttgaacccaa	gaggcagagg	12840
ttgcagtgg	ctgagattgc	gccactgcac	tccagcctgg	gtgacagagt	gaaactccgt	12900
ctcaaaaaata	aaataaaaata	aaaaaataat	aaaataaaat	aaaataatgc	tctctatact	12960
taaacccatc	taccaggttt	ctaccattaa	tcccttcaga	tatatctgtg	gtgtttctga	13020
ggcccagcag	cactggattg	aatgatgttt	agccctcttg	tgatgtgaag	attgaagctg	13080
acaagttacc	aagcattcac	ttctgtctgt	catcattaac	tgacaggaga	gcttacatag	13140
tctttctttc	ttctttcagt	ttctgtccat	actcacttat	ccatttcatc	ttaatccctt	13200
tgattgacct	tactattttt	atgtttatag	gcagaggcag	gcttgtcaaa	acaaaattaa	13260
aaaaagcaca	actggccagg	cacagtgggt	cacgcctgta	atcccagcac	tttgggaggc	13320
cgaggtgggc	agatcatctg	aggtcaggag	ttcgagacca	gcctgaccaa	catggtgaaa	13380
ccctgtctct	actaaaaata	caaaaattag	ccaggcgtgg	tggcggggcg	ctgtaatccc	13440
agctactcgg	aaggctgagg	caggagaatc	acttgaaccc	gggaggcaga	ggttgcagt	13500
atccgagatt	gtgccactgc	actccagtat	gggcaacaga	gcaaaattct	gtctcaaaaa	13560
aaaaaaaaaa	aaagcacaac	taagtgttcc	ttaatgatgg	gtgggggttg	gagcaagagg	13620
atggggacct	atcttttctc	cctagg				13646

<210> 72

<211> 10709

<212> DNA

<213> Homo sapiens

<400> 72

cctaggagga	aaagataggt	ccccatcctc	ttgctcccaa	ccccacccat	cattaaggaa	60
cacttagttg	tgcttttttt	tttttttttt	tgagacagaa	ttttgtctctg	ttgcccatac	120
tggagtgcag	tggcacaatc	tggatcact	gcaacctctg	cctcccgggt	tcaagtgatt	180
ctcctgcctc	agccttccga	ctagctggga	ttacaggcgc	ccgccaccac	gcctggctaa	240
tttttgtatt	tttagtagag	acagggtttc	accatgttgg	tcaggctggg	ctcgaactcc	300
tgacctcaga	tgatctgccc	acctcggcct	cccaaagtgc	tgggattaca	ggcgtgaacc	360
actgtgcctg	gccagtgtgtg	ctttttttta	ttttgttttg	acaagcctgc	ctctgcctat	420
aaacataaaa	atagtaagggt	caatcaaagg	gattaagatg	aaatggataa	gtgagtatgg	480
acagaaactg	aaagaagaaa	gaaagactat	gtaagctctc	ctgtcagtta	atgatgacag	540
caggaaagtga	atgcttggta	acttgtcagc	ttcaatcttc	acatcacaaag	agggctaaac	600
atcattcaat	ccagtgtctg	tgggcctcag	aaacaccaca	gatatatctg	aagggattaa	660
tggtagaaac	tgggtagatg	ggtttaagta	tagagagcat	tatttttattt	tattttatta	720
tttttttatt	ttattttatt	tttgagacgg	agtttcactc	tgtcaccocag	gctggagtgc	780
agtggcgcaa	tctcagctca	ctgcaacctc	tgccctcttg	gttcaagcga	ttctcttgac	840
tcagcctcct	gagttagctgg	gatttatagg	acgcaccact	acgccagcta	atttttctat	900
tttttagtaga	ggagggggtt	caccatgttg	gccaggctgg	tctcaaacctc	ctgacctcaa	960
gcgctctgcc	caccttggcc	tcccaaagtg	ctgggattat	aggtgtgagc	cactgtgccg	1020
gccgagagcc	ttatttttaa	taaaagaata	caagggttatt	cttaactgat	gtttcagtaa	1080
aagagaataa	attgttaaca	ctagagccag	acaaatacca	tttgttagct	taaaaaaaaa	1140
agccatttga	aaaattaatc	ttacatttat	gtaacaaatg	gaaacttaat	ttaatagata	1200
cccacaaact	attttgttgt	tattgttcta	atatcgtttt	ttttctactg	gtaaaacaac	1260
attaactcta	attgacatta	aatcttccag	ttctgcaagt	ctaagtgaag	atacagcact	1320
tagtttaaaa	gcagtgttac	agattgatct	ccaattctgc	cccatgtttc	ccttctcaga	1380
cccctatgac	aagtggaggg	gaagatgcct	ggctctgccc	accatcacta	gttctccgca	1440
gatagaacac	agctcacctg	attcacctag	aagagtctat	gcacactctt	tcctgcccac	1500
tacattcctt	cttactcctt	ttcaaatagt	gacctcacta	tggctgcctt	ttctagactt	1560
cctatgataa	gtagctggca	tatcctccct	ctaaacacat	ccccatgttt	cttctccag	1620
aaacgatcaa	cagagagaac	acattttctga	aactgaaccc	catgaccaca	cctcatcttc	1680

caagtggcag	tgtatgaggt	ctgatcatct	aacatagctg	cttctagatc	taagtcttct	1740
tcaagtactt	aatactctct	caaagtgtcta	gtcttttgagg	cagtgagtg	gggtcaagaa	1800
aattctctac	aaagacacag	aagatagaga	aacaactaac	aagtcaaaga	caaagccacc	1860
aagtgaccca	aacaggaaca	gaaatgatgg	acaatgaagg	cctttctata	gttcttgggc	1920
tccctgggca	caggaggaaa	cccttcatgt	gtccataaaa	ctctgtgtaa	agtaaaagttt	1980
taatttgggt	taagacatat	tctaatactg	ggtgacgaca	tccactgctt	caacagatgc	2040
cacttgagaa	ctgactgtat	cattgtgaga	tctgtttttt	tttttttttt	ttgagacaga	2100
gtcttgcttt	tgtcacccag	gctggagtag	ggtggcatga	tcttggctca	ctgcaacctc	2160
ctcatgccgg	gttcaagtga	ttctcctgcc	tcagcctcca	gaggtctgct	cttttattgt	2220
gttctgtttt	ttgtcaaagt	acctagaagg	ggcgggggctt	atttgtccca	tttcagaggc	2280
tggatacatc	catgctaaaag	ttaaataaac	ccctcttctt	agagtgcagg	catttatgac	2340
tttggtgata	tttgacagaa	atcttctatca	atgctgctgc	cttcattaag	ttccaaacca	2400
taacgtggca	cctcccagga	ccactgctga	ggtttcatga	cactgactct	ttcaactgag	2460
gcaaatgttt	tgaacttgct	taaaaaagcc	tcttcacatt	tctgttttca	ggctaagctt	2520
tcacttaaca	taaagagaaa	atcttcaactg	cagaaacctg	gttaacacaa	aggaaatttt	2580
gactccacta	aagcttctct	gtattgaggg	aaaaattttt	ctttcatttt	tttcttttgt	2640
caaaaaaagt	ttctttcttt	tttttttttt	ttggcttggg	acttgctgca	gcaagttctg	2700
ttagaatacc	caccaaaggt	ggtaattcaa	tttaaaaaaa	tatatatttt	atatttttat	2760
ttttctgaga	cagagtctca	ctcttgtcac	ccaggctgga	gtgcaatgg	gcatcttgg	2820
ctcactgcaa	cctccgcctc	ccgggtttta	gcatctctcc	tgctcagcc	tcccaagtag	2880
ctgggattac	aggcgccac	caccaagtct	ggctaatttt	tttattttta	gtagagatgg	2940
ggtttcacca	tgttggccag	gctggctcgc	aactcctgac	ctcaggtgat	ccaccgcct	3000
cggcctccca	aagtgcctgg	attacaggtg	tgagccactg	cgctggcct	attttatttt	3060
tagacaaggg	tcttgctctg	ttgcccaggc	tggagtgcac	tgggtgcaatc	taactcctgg	3120
gctcaagtga	tcttcccacc	tcagcctcct	gagtagctgg	gaatataggc	acgagccacc	3180
acacccggct	aattaatttt	tttttttctt	tagagacaag	ttctacattg	cccaggcagg	3240
tcttgaactc	ttgggctcaa	gtgatcttcc	taccttagta	ggaaagtgt	agtattacag	3300
gtgtgagcca	ttacactggc	aattcttgag	agggtggtgt	aagaaataca	accaagactg	3360
gggagaaatg	tcaatttaat	caagctggca	atagaattta	gggttacaaa	cagggtgaa	3420
tcccaagaca	tattttctctg	tatgcctcct	aagggtggtga	gaagtaattc	caaattggatt	3480
tctcaagatg	ttctgaacag	cagcagcatc	agaggaaaaa	cagggtttcaa	ggtgactgct	3540
ttgaaggata	tattcctttg	aattttattat	ttatgaacaa	ttaaaaacca	acttctggct	3600
agttgtggta	gctcacacct	gtaatccag	cactatggga	gataaaagtg	ggaagatcac	3660
ttgaggccag	gaatttgagg	ccagcgtggg	caatatagcg	agaccctgtc	tctacaaaaa	3720
aatttttaaat	tagcgaggca	tgggtggcag	tgtctggagt	cccacctatt	cgggaggctg	3780
aggagggagg	actgcttgag	cccaggaatt	caagggttga	gtgagctatg	atcatgctac	3840
cgcactttat	ttatttattt	atttattttat	ttatttagag	acggagtcta	gctctgtcgc	3900
caggctggag	tgtagtggca	cgatcttggc	tcactgcaac	ctccgcctcc	cagggttcaag	3960
cgattctcct	gcctcagcct	cctgagtagc	tgggactaca	ggcacatgct	accacgcca	4020
gctaattttt	ctatttttag	tagacatggg	gcttcaccat	attggccagg	atggctctga	4080
tctcttgacc	tcatgatccg	ccgcctcgg	tctcccaaag	tgctgggatt	acgggtgtga	4140
gccaccgtgc	ccggccgcac	ttttttttct	tttttttaaag	catctgcagg	tatagctact	4200
acactctagc	ctgggcaaca	aagcaacacc	ccgtctcaag	aaaacaaaac	agaagccacc	4260
ttcttatatc	atggtcacat	ctgatgaacc	cttttgagtt	cattaggaga	atctctgaaa	4320
tgtaaaactga	atgggggtcca	aattgagggg	taaaatcatt	atatcagtaa	catcagtaa	4380
atatataaat	atgtttatgt	attttttttt	cgagacagag	tctcgctctg	tgcgccaggc	4440
tggaaatgcag	tggcgcgac	tggctcact	gcaacctccg	cctcccggtt	tcaagcgatc	4500
ctctgcctca	gcctcctgag	tagctgggat	tacaggcgcc	caccatcatg	ccaggctaat	4560
ttttgtattt	ttagttaaaga	tgggggtttca	ccatcttggc	caggctgggt	ttgaactcct	4620
gacctcgtga	tccacccgcc	ttggcctccc	aaagtgtctg	gattacaggt	gtgagccact	4680
gagcccagcc	cgtttatgtt	gtattttttt	taacatttta	ggttatattg	tcatgtatca	4740
cttcttcaa	ttttcttccc	taaaatgagac	agatttttta	aaaaacttcc	tttaatacca	4800
aaccaggatt	tttcttatcc	caaaagaaga	aaataaacag	ataaaacaag	cagccctgac	4860
aggagaaaga	taaatgttaa	aaaatatata	taaaatattt	ctcatagact	cagctatcca	4920
aatagccaaa	tttgtctcta	ttaccacaca	ggacaaaaca	gagaagaaag	tgaacagttt	4980
tgcaagactg	caatggactc	aggttttata	aagcaataaa	cccttcatgc	ttttgacgga	5040
gagaagacag	ataaagagga	aaacagaaaa	gattctgtat	gattctgtat	gaaatgaagg	5100
gagaacatt	ctacttttga	atgtagaaga	ggaaaacttg	aaagagtcta	agaataaaa	5160

tgacaagttt	agcaaatgga	atgaaaaaat	aatttgaaac	tctaaaaatc	atttaagaag	5220
ctatacgctt	cttaggggtac	agaacagggt	ctactctatc	ctagggtacag	tagggtttaca	5280
tgaggagggg	actacaaaat	taaaatggca	aagcaacata	agacagaaaag	cattctgata	5340
aactagaatc	ctacgtgcaa	aaaagcaaac	agacaatacc	taggaatatac	cttatcaaga	5400
aagagcctgc	aaaaacatag	aaaaggcttt	agtttagtgca	gcaaaaaaac	aaaagaaata	5460
agggagagaa	tcagaaaaaa	tatatatata	aagaagacaa	aatttgctga	taagcaaagt	5520
gaattcaagt	ggacagacaa	ttaacacaga	atcccatgga	acacaattcc	atagaggact	5580
tacaataaca	tgggtccctc	tcctgagact	tccaactaag	gaaaatgcc	gacataagag	5640
ggaaagtgga	gaccaccacc	atcagtaccc	ctttcagtg	tgacttagta	ttgagaataa	5700
taggaagtgg	ctgtggagtt	aagggaatac	caagtcaatg	cattaacata	aatgtaggac	5760
tgggaagaaa	aggaataatg	aatggctcct	tgtaatttat	acccactat	caatgtatta	5820
gcaaaagccct	ctaagatata	cacataatat	acccaaattg	caggtaagtt	caactttaaa	5880
cattaaacct	tagacaaaca	gaacgaaagt	tctcttaacc	aaactccatt	ttgccactta	5940
ccatattaac	ctatgttttc	catatcccta	aatatatacag	attgatggct	agttctcctt	6000
gagcattcta	aactacaaaag	atgtctcatt	tgcccagaca	cttcgctccg	aagagttgag	6060
tgcttatcaa	atgtcagtag	tatctggctc	caaactctgt	tatgccagtt	gtacttatta	6120
ttattatcta	acttcattaa	acattaggca	aatcaatgaa	atatgaaaac	ataaatatt	6180
tttgttcctg	tgaaaactaa	gttgaatgtt	ttcaaaaggt	tagaaaatgg	tgagttgttt	6240
aaaaataact	gttaagtgtg	ggtgagacaa	atgtaaaaga	aaggggaaaa	tgataaaatg	6300
tttaaatgat	taatgttaat	aatgataaaa	aaatttaaaag	gattttgaac	ttagattttc	6360
ttcacagggt	tctaattcct	gctccaccaa	actgaaagtc	atagatgatg	aattatgggt	6420
tggtttttgc	aagaaaagaca	atcagaactc	cagtaaatga	tcttataatt	aaagaaaagg	6480
ccatggcttt	ccagcaaaaag	tttgataaat	taatgtagat	ttatatagtt	taaatgagaa	6540
cagaaatatt	taagggtgtt	tttgttgttg	ttgttattct	tgacttcagc	cttttttgat	6600
gaactcattc	taactacaaa	gataagctgc	ttctaacaaa	gccaaattca	tttctgttag	6660
cacctgacct	gttgttgggc	gtgaattaaa	ggacttctta	aagttactct	aatggaggca	6720
aaattagaat	aaccagtatt	tcaaccaaag	cccactcttc	cctgtatatt	ttactaagta	6780
ccctagggaa	atttacaata	catttttcat	agctacaaaag	aaaatgtggt	ggtaaaaacc	6840
ggctgaacat	tggcagaaaa	cagaaagcta	tgcagaatta	ctgctgactt	cagggaaata	6900
gtattgctcg	tgattttgcc	catggatagt	caaagcacc	ctctttattt	ctgccactcc	6960
ccctccccag	acatacatat	gtaccctctc	actccttccc	tctttctcca	cagcccctgc	7020
cagcaaacag	aagtttggtt	cttttttctc	tttccatagg	taaactataa	tacaagaaaa	7080
caacagaaag	aaattaatcc	tggtccaaac	ctttcattcc	atttctgect	atcgtcttat	7140
tccttccctc	cctcctctca	acatggatgt	aaacaagtgt	ttcaggagca	gactgaagca	7200
cagcaaaagtc	ctgtggtggg	aaggcaggtg	gctcagccca	cattagaaga	ggcagccgct	7260
cctgtttccc	agcccctagg	atatagagac	ggagcctctg	agacaatgag	aactcccttc	7320
ctgggtgagg	taagaggatc	ccagctggtt	tagttctagt	cttacaagg	aaagcagaat	7380
ggctatgtac	tttacgaact	gtctgttatc	acctgattat	aaaagataat	tttaagtga	7440
acatttaaaa	taaaaaacaa	agtaaaatct	attatttatg	gcagccaatc	ttggtcataa	7500
gagttcataat	tatttatcgc	ttttgtgcat	aaatgaaaaa	caaataactaa	ggataatgga	7560
gcctatagtc	agcagcagca	aagacttaac	acaagaggct	tcattttatc	tcagagggca	7620
catttccatg	atacttgggg	agtgaagaaa	acctttctct	ccacagcaac	catttcacag	7680
gaaaaaattt	aatcttggca	ataattaatt	cgtactttta	aatccttggg	gaatatactg	7740
ttttctttct	ccaattttca	tttatcactt	gttacatcta	ttcaaaactc	acatgggaca	7800
ggatcacttc	cattctctaa	gagtaactga	tcacatacaa	atatctgcaa	tactttcttt	7860
ctttcttttt	ggagagtaca	gcaggcaggt	gaagaaataa	agagattttt	gaagctagaa	7920
gggagaaggg	agttaatttc	tttgtccgaa	ctgggagtca	ttaatgaata	aggcacctaa	7980
cggtgtacca	attaacgcct	gcaagtgtgg	acttcttcac	actgctctgg	gtgtcccacc	8040
tgctagagtt	gtgggaagac	ttcaggtaact	tggcagaaat	aatatttagg	gagaggatgg	8100
catcaactgc	agcttcatcc	acctcaggct	tattccgaat	acgacctaaa	agaaaggata	8160
aaaaaaacag	agcacggaca	catttgaaaa	ataacacatga	attcattaag	cccaaaagag	8220
acttttaaat	ctctgtgtaa	gttcaggagc	tgggaagggtc	atttggttac	ctgtaggggtc	8280
ctccacgggtc	tgactccatt	acttcccaca	ttgagttaac	tatgaaacca	tattgattct	8340
ttattcaaag	agtttcccac	attcatccca	acttttatcc	acaatatcat	tgccctgatc	8400
acaaaaggcc	acctcctctc	tggtctggaa	cctgcaacag	ccatttaact	ggtctccctg	8460
ctattcacac	ctcccccggt	ccaatccatt	ccactctcac	ctaacagcaa	cttctgacct	8520
gctattcaca	ctatcccggt	ccaatccatt	ccactctcac	ctaacagcaa	cttctgacct	8580
gctattcaca	cctcccccggt	tccaatccat	tccactctca	cctaacagca	acttctgacc	8640

tgctattcac	acctccccctg	ttccaatcca	ttccactctc	acctaacagc	aacttctgac	8700
ctgctattca	cacctccccg	ttccaatcca	ttccactctc	acctaacagc	aacttctgaa	8760
gccactgact	gacagtttct	tggtttttttg	tggtttttttt	tttgaacaaa	tgtcttggtc	8820
tgtctcccag	gctggagagc	agtgggttga	tcatagctca	ctgcagcctt	gaattcctgg	8880
gctgaagtga	tcctcccacc	taagccacct	gagtaactgg	gacttttaggc	ctgcagcacc	8940
acatccagct	atttttatttt	atttttatttt	tttgtagaga	cggggcccca	ctatgtcgct	9000
caggctgggtc	tcgaactcct	gagctcaaac	gacccctctg	ccttggcctc	ccaaagtgtc	9060
gggattacag	gcatgagcca	ccatacctgg	ccatgctgac	tttattacac	ccctttcttg	9120
ctcaaaatcc	tacactctgt	tttcaagtta	acactagcgg	atgcagcatt	gcatagacgt	9180
taaggacttg	gctccagtg	ctggactgcc	tgggttccaa	ctcctaccac	ctgtgaggct	9240
ttgagcctaa	ggctcaacct	ctctgagcct	cagttccctc	atatgtcaag	cgagaataac	9300
aattcctttc	atatatgggt	gctatgagga	ttaaacaaac	tagtattttt	ggagcattca	9360
gaaaagcacc	tggcatgtgg	taaatactac	atcagagttt	gttaataaaa	caaaactaaa	9420
atatatcata	ggatccttca	gagaagccat	agtaactgct	gcctctgcat	cctccctctc	9480
cttctctggg	cagaaagcat	ctcttctgtt	tcggtattag	ggttccatat	aaacattatt	9540
ttgtcaaagg	acattcagta	ctttgtaaa	aaagttaaaa	aaaaaactaa	attaaaaaaa	9600
gaaaaattta	ttatgaaaaa	tattgaaaag	ctactaccac	tgctgcccc	gacaagagag	9660
aacataatct	cccttccaac	gattcttttt	tttttttttt	ttgacagggg	cttgttctgt	9720
catgcagtg	catgatcatg	gttccactga	gcctcgactt	ctcaggttca	agcaagcttc	9780
cagcctcagc	ctcctgagta	gttgagacta	taggcattag	ccaccacacc	cagcttattt	9840
gtagagagac	aggggttttg	catgttgtct	aggatagtct	caaaactcctg	aacttaagtg	9900
atccgcctgc	cttggcctcc	caaagtgtct	ggattacagg	cgtgagccac	tgtgcctggc	9960
ccaaggttc	ttaatctggg	ccagagagac	acaagcactc	tggggacaga	attcaaaggg	10020
tccttgagct	tggatgggga	aaaaaattac	atcttttatt	tcacaaacct	ttaaactaaa	10080
attggcatct	ccttcaatca	caaaggaagg	caataaacca	cagaagaatt	ggccagtacc	10140
cgtgactctg	tccccagtag	aaaccacaga	tgtttccatg	tgcaaaatat	cttattttatt	10200
tatttatata	tttttttgag	atggagtatt	gctctgttgc	ccaggetgga	gtgcagtggc	10260
acaactcgtg	ctcactgcaa	gctccgcctc	caggttcatg	ccattctcct	gcctcagcct	10320
cccgagcagt	tgggactaca	ggcgcccacc	accacgcctg	gctaattttt	ttgtattttt	10380
agtagagacg	gggtttccac	gtgttagcca	ggatgggtct	gatctcctga	cctcgtgac	10440
cgcccatctt	ggcctcccaa	agtgtctggg	ttacaggcat	gagccaccac	gcccggccta	10500
tttattttatt	tttaaacaga	gtctcactct	gctgtcttgg	ctcactgcaa	cctctgtctc	10560
ccagggttcaa	atgattctcc	tgtctcagcc	ttccgagtac	ctgggactac	aggcgcccgc	10620
caccacaacc	agctaatttt	tgtattttta	gtagagacgg	ggtttcacca	tgttgccag	10680
gatgggtctca	atctcttgac	cttgtgac				10709

<210> 73

<211> 6519

<212> DNA

<213> Homo sapiens

<400> 73

ggatccacct	gcctcagcct	cccaaagtgc	tgggattaca	ggtatgagcc	atcacacca	60
gccagaacca	tggtgttttt	agtaattcac	tttggtaatc	ttgagaaagg	tttttttaag	120
ccacttgctt	tatcttttatt	agacatacat	agaacttccc	ttactatata	cttagttcta	180
atctctagag	ctgtttgggc	aacatcggag	ctgcactgtg	ggtttaggac	atgttatttc	240
ccctcctgcc	ttgtatccag	ggcttcattt	agtcattgag	gtttttgttt	gtttgttttt	300
aaatttactg	atttattaga	aaggacagtg	caaaggagac	caatgaacgg	cagatggacg	360
aatgcatagg	gagaggagat	gtggagcttc	tctgccctcc	ccgggaactc	agcccttcag	420
gagcctccac	gtggtcagct	atcccaaggc	tcctggctgt	tgacatttta	tgttcagctt	480
gcacttctct	ttctcttctt	tagtgctctg	aacttctcac	ccacactttc	aacagagaat	540
tcagccaggt	gcacggcagc	gtcagtgact	gtaagggtgag	cacattgact	gtaattttta	600
gccagtatgt	tgataactga	tttctccaca	gcagcccaga	ttacctatcc	ctggtttttg	660
ctgcttttaa	gcaacttgct	atgggcatag	cattgtattt	gaaaatttat	gacatactgc	720
tctgggtattc	attctaattt	ttcagagtcc	gaacactgac	ttctgaagat	aaaagtactc	780
ctttgtgtct	cttagagtga	ttatcagatg	ggaaacattt	tggctttttc	atgactcctt	840
tggaggagaa	tattctatgg	ggaggtggta	tgttattctt	tgccagggtg	caaggaaacc	900

ctgaggttcc	tgggtggcata	aagtttttatt	gacttcaaca	aagagtgaag	taaactcttc	960
agagaatttc	tgtgttattc	actcaattct	agtcagcttg	accttaaacc	ctcccggctc	1020
attcctgcct	tgggtgtctt	gcacacctac	tattttctttg	cctggaattg	cctttctcca	1080
ggtattgcca	tgggtggctc	ccttacctct	ttcatttttc	tactccatta	tcacctctg	1140
tgagtcgact	ctgttaacac	ctgataataa	atctgacagc	tgtctgaaac	tttctaccta	1200
cacctctttc	ctgctttatt	ttttgctata	gcactaatta	ctacctgatg	ctttttaaag	1260
tgtttgttga	gtgggtttatt	gtctgtctta	agctccaggg	aggcagatcc	tctgccatat	1320
tattagaaca	atgcctagta	catggaaggt	gcaccactgt	aataccactt	atattaattc	1380
aggggctggg	tgtggtgggtg	catacctgta	atcccagcac	tttgggaggc	caagatgagg	1440
ggatcgcttg	aggccaatag	gttgagacca	gcctgggcaa	tatagcacia	ataccctatc	1500
tctacaaaaa	aatttttgaa	aaatttagcca	aatgtggtgg	tacacaccta	tagtcctagc	1560
tactcaggag	gccaaggcag	gattgcctga	gcccaggagt	ttgaggctgc	agtgagggtat	1620
gattgtgcca	ttgcacccca	gcctgtgtga	cagtattttt	ttgtctctta	atgataacgg	1680
actggggggc	tggctgcggg	ggctcatgcc	tgtaatccca	acactttggg	aggccaaggc	1740
gggaagatca	cctgaggctg	ggagtttgcg	accagcctga	ccaacatgga	gaaaccccat	1800
ctctactaaa	aatacaaaat	tagccggata	tgggtggcgca	tgctgtaat	accagctact	1860
caggaggctg	aggcaggaga	atcgcttgaa	cctgggagggt	ggagggtgca	gtgagccaag	1920
atcgctgcat	tgactccag	cctgggcaac	aagagtga	ctccgcctca	aaaagaaaac	1980
aaaaaacaaa	aaaaccccca	aaataatggg	ccaggcatgg	cggctcatgc	ctgtaatccc	2040
aacacttttg	gaggccgagg	tgggcggtatc	acctgagggt	gggagtttga	gaccagcctg	2100
accaacatgg	agaaaccctg	tctctgctaa	aaatacaaaa	ttagccgggc	gtgggtggcac	2160
atgctgttaa	tccagctac	tcaggaggct	gtggcagaat	tgcttgaacc	tgggagggtg	2220
aggttgcgg	gagccaagat	cgcaccactg	cactccagtc	tgggtgacag	agcgagactt	2280
cgtctctcca	aaaataaata	aagataatgc	aggagaggcc	agtgacagtg	gctcacatct	2340
gtaatcctgc	cagcttggga	ggtcaagggtc	gatggatctc	ttgaggccaa	gagttcaaga	2400
cgagcctggg	caacatgaca	aaaaccccat	ctccacaaaa	aaatacaaaa	attagttggg	2460
tgtggtgggtg	tacacctgta	gtcccagcta	ctcaggaagc	tgagatggga	ggatcacttg	2520
agtcctggag	gctgaggcta	cagtggagcca	acatcgaccc	actgcactac	agcctggtag	2580
acatagcaag	accttatctc	gaaaaagaaa	ataataataa	taataataat	aagaagaaga	2640
agaagaagaa	gacatagcaa	gaccttatct	cgagaaagaa	aataataata	ataataataa	2700
taataatgac	aacaataata	ataatgcagg	agggcagtag	gaacataaaa	aaccaacctt	2760
gcccctttta	taaatgtctt	gattcctgggt	gtggcactta	ggccgtaaaa	tatttgtagg	2820
cttggttttt	ttcttttttg	aaaatatttt	caccagttgt	ggtggtacac	gcttgtagtc	2880
ccaggtactc	aggaagccag	ggcacaggag	gatcgctgga	gcccaggagt	tggaggccac	2940
aggaagctag	gattgcatca	ctgccctcca	gcctgggcaa	tagagcaagg	ccttgtctct	3000
taaaatttta	cctatgtatt	tattttattga	taaattatgt	ataggcttgt	tttcttaaat	3060
gaccttctga	aacaagatgt	atcaaagtga	ggttctgggt	gttgaaactc	cctattgtta	3120
ctgtagaggc	agcttttttc	agctgaatgt	aacttgtagt	gttcggtttg	cttccagttg	3180
tctgatatct	ctccaattgg	acgggatccc	tctgagtcca	gtttcagcag	tgccaccctc	3240
actccctcct	ccacctgtcc	ctctctggta	gactctagga	gcaactctct	ggatcagaag	3300
taagtaccca	gatttccactg	agagaagtca	atctaagaac	caaggtaaat	gtcaaccttc	3360
ctctagctca	atggttcttg	actgaaggca	gcaccttctc	cctaggcagc	atttggaat	3420
gtgtgggagc	ctttttgggt	atcacagtga	ctggagaggt	gctagctact	ggcatctctt	3480
cacatcatag	cttactaacc	ttctgcatca	tcaactcatc	atgactgtct	tcttcatccc	3540
tttctgtctg	ttttatcctc	cattcctacc	cctgcttgct	tccccagtc	taataccaga	3600
cataggaagt	gctatcttgg	gaaaaatatt	ttgaaactgt	tttggaaaaa	aatattttga	3660
ttccacagca	aattatgtag	gtaagaaaaa	taaagacaag	gccagggtgag	gtggctccca	3720
gcactttcgg	atgccaaggc	aggaggattg	cttgaggctg	ggagttcgag	accaggctgg	3780
gcaacatagc	gatatgctgt	ctctacaaaa	aataaataag	ataccagggc	gtgggtggtc	3840
gtgcctgtgg	tcccagctac	tcgggaggct	gaagtgggag	gatcgcttga	atccaggagt	3900
tcaagggttc	agtgaggttt	tattattgca	ccactgcatt	ccaccctggg	cgacagagca	3960
agaccctgtc	cttaaaaaaa	ataaaaaaaa	gacaaatgta	gtctagagtc	catgattcat	4020
catcataatc	cgttctttgc	aacacaccct	cttgtgcac	tccatcaatt	atgctcacct	4080
ggttatcatc	cacctgtcta	tcttattgta	ccaacactga	cacaggcaaa	ggtggctgga	4140
gaaaaataaca	caaccaggta	atttcattaa	atttaggatg	ccacagactg	tagggactat	4200
tctgtgccac	taagagaaga	agaaaaagca	ctgacaacta	acttaagcat	gccatcaatt	4260
ataagatgaa	tcccaattta	agaaatggtg	gtgagtgca	gtggctcata	cctgtaatcc	4320
cagcactttc	aggggctgag	gtgggaggat	tgcttcagcc	cacaagtttg	agaccagcct	4380

```

gggcaacata gggagacccc atctctgcac caccaacaaa aaattagcca ggcattggtgg 4440
ctcacgccta tgggtcccagc acttttgggaa gctgaggtgt gaggattgct tgaggccagg 4500
agctcaacac cagcctgggc aacatagcaa gatcctgtcc ctacaaaaaa aagtttttaa 4560
ttagctgggt gtgatggcac acacctgtag cccacacctac ttgggaggct gaggcaggag 4620
gatcacctaa gtccaggagt ttgaggctgc agggagccgt gattgtgcca ctgcaactcca 4680
gcctgggcaa cagagtgaga ccctgtctct aagaagacat ttcttctggt gctttggtga 4740
tgcttctgct cagcctttct gtctgtagtc tcagtcgat agtcagctct gctttgaggg 4800
cccaccagga cctggaggag gggccagttt cagtcaaggg tctgcagttg accttgagaa 4860
cttagcacat tcattatctt tttgtgggca cttccacctc ccattagaaa gaaaaagatg 4920
ggcccagtgc ggtggtggct tatgcctgta atcccagcac attgggtatc cacggtgggt 4980
ggatcacttg agctcaggag ttcgagacca atctgggcaa catggcaaaa cccctctctc 5040
acaaaatcca aaaaaatgag ctgggtgtgg tgtcacatac ctgtagtctt agccacttag 5100
ggggccgagg caggaagatt acttgaacct gggagggttga ggaggctgca gtgagctgag 5160
atcacaccac tgcattccag cctgggtgac aacgtgagac cctgtctcaa aaaaaaaaaa 5220
aaagaaagga aaagataggg gttggtgtct atgggatatg ttggtgtcta tgggtatggg 5280
ctctcagccc gtctcttctc attaactgaa ccacactggt tctttacaca ggcccacat 5340
caagaccatc ttccaaggca ttgctgcaaa atggggaact ggagaaccct gctgtgactg 5400
ggcaagtctt gggctactct ttaaagccaa ttggcaacat gggcgtgtct aagtgatgaa 5460
gtgctgtggg aaaggccacc gtggtctccc aggggttagc ttggtgacat aaacgtctcg 5520
atctttgatt gctagaatag ccaacgccta gaatgcatgc ctgctgttca catctttgta 5580
tcttagctga ctgttcatag ccttgagggt gatattaaaa gcagccttct ataattcatc 5640
taaaagatga attctttaa aaggaatagg atgaagtga ataagatttt ttcgagccat 5700
attatttcat ggccaaagga aagaatgtca gaatcaaaag tggcgtttgc ttgcatgggt 5760
gaaaggtgga agattgaagg tactgttgct gtgtcaacat tccatgaacg tggaaaattc 5820
ccatcctgt agtgtggat tcaggcattc tgtgcttgaa caaagtaacc tgtggacttg 5880
caccctcact gaatatgaag gaggcctaac ctagttcata gtacagtggg gcgatcttgg 5940
ctcacgcgaa cctccacctc ccaggctcaa gcaatcctcc tgctcagcc tcctgagtag 6000
ctgggactgc aggtgcatgc caccacgcct agctaatttt tgtatttttt gtagagacgg 6060
ggtttcacca tgtcaccag gctggtctca aactcctgga ctctcaagtc atctgcctgc 6120
cttggcctca caaagtgtg aggttacagg catgcccac catgcccggc ctctgtgtgc 6180
tgtaaagta aactttatct catattgtag ttcagccatg ctgtggatgg aaaaaagcat 6240
taggctcagg agacctgagt ggcagttctg gctttccata aacttaactg tgacatcagg 6300
caagccacgt cccttcattg acttcagttt ccttatctgt aagatatggg gttggattac 6360
atgatctcca agctctctc agctcctgat tctctttaat ttatatcag caattttaat 6420
gtgaatttta ttattcaatt ttattttata tgaaatcaat gctgaggttg aaataaggac 6480
tcaggccttt gaggaatccg ggaagccctc cctcctagg 6519

```

<210> 74

<211> 9799

<212> DNA

<213> Homo sapiens

<400> 74

```

aggcaaaatg ccgcaaaaaa gggaataagg gcgaccggga aatgttgaat actcatactc 60
ttcctttttc aatattattg aagcatttat caggggttatt gtctcatgag cggatacata 120
tttgaatgta tttagaaaaa taaacaaata ggggttccgc gcacatttcc ccgaaaagt 180
ccacctgacg tctaagaaac cattattatc atgacattaa cctataaaaa taggcgtatc 240
acgaggccct ttcgtctcgc gcgtttcggg gatgacggtg aaaacctttg acacatgcag 300
ctcccggaga cggtcacagc ttgtctgtaa ggggatgccg ggagcagaca agcccgtcag 360
ggcgcgtcag cgggtgttgg cgggtgtcgg ggctggctta actatgcggc atcagagcag 420
attgtactga gagtgcacca tatgcggtgt gaaataccgc acagatgcgt aaggagaaaa 480
taccgcatca ggcgccattt gccattcagg ctgcgcaact gttgggaagg gcgatcgggt 540
cgggcctttt cgctattacg ccagctggcg aaagggggat gtgctgcaag gcgattaagt 600
tgggtaacgc cagggttttc ccagtcacga cgttgtaaaa cgacggccag tgaattggcc 660
cttatggccg gatccaagcg gtttggcgtg gggcgtgat ggcagcaggc ggtgggatgc 720
ttgtagctcc tcacagcagg attcctgccc actgtttttt ctctgttggg agggaaagctc 780
ttttctagga gtgtctcagt tctgcttttg gcattagtga tgggtgggtg acagtgggaa 840

```

ttagtgccat	gtcatacaca	aatgttccac	aaggcgaggag	tgtttcactt	tctgggtgata	900
aacttgatgg	tcattgttat	gattaagata	atgccgggca	ggccggggcac	agtggtctcac	960
gcctgtaatc	caagcacttg	gggaggccga	ggcgggcgaga	tcacgagatc	aggagttaa	1020
gaccagcctg	gccaatatga	tgaaccccg	tctctactaa	aaatacaaaa	ttagtcgggt	1080
atgggtggcac	atgcctgtaa	ttccagctgc	ttgggagcct	gaggcaggag	aactgcttga	1140
acccaggagg	cagaggttgc	agtgaagcaa	gatcgcgcta	ttgcaactcca	gcctgggtga	1200
cagagcaaga	ctctgcctca	gaaaaaaaa	aaaataataa	tgctgggtag	tgacctgtg	1260
attgtttacag	ctccctttga	tcaaagaaat	atagctttca	ggcataaacc	tggaagtctc	1320
cctctgaatc	cagcagttgt	tttcattgat	gcttgtcagg	ttgaagatgc	tttcagtgat	1380
gctctctata	ctcataaata	agcaaagtgt	gcaggctttg	ctttctggat	cccaggatta	1440
aaactaaccg	tgaccactac	tccaaacaaa	acacaatatg	cctaggggca	cggatgaacg	1500
tccaggggagc	ccggggcccca	ggctttgttg	cgtgttccct	gctcctctcc	atctgggtg	1560
gaaacactgc	ccaggagaga	aggaggaagc	tcactgtgga	cagtcttctt	tccttctgac	1620
agaccagggtc	atctggcttc	cgagatcatc	agagaagata	agtctgtctc	tttcagctgc	1680
cagtaagttt	tccaggatga	gaggggaaaa	agaaagcctc	cagtgaacttc	agttgctttg	1740
ccagttgtct	tgggattgtt	ttacaccatc	ctttacttcc	cttgctcaga	cctctctgtt	1800
tcaccattgc	tcaggcattc	aggaaagtat	ctgctcactc	ccacttgggtg	agtcctcgcc	1860
cttgagggttg	ctgactctca	ggcgttaggtc	agctggatga	cttcccgtct	cacgcagcaa	1920
aggccaggggc	ttgcgcgcct	ctgcagagtt	gttgctaggg	agcttgtgtc	atcatccaca	1980
accttgtttc	tcacttctctg	gttgggctca	tctctgaaga	acagggtctcc	cagcttcgct	2040
ccttatcact	gcatttgtgaa	gaggaggaaa	agtgaatcac	ggagagagaa	aggaaaaggat	2100
agaatcacag	gctgcgtctg	cacctgaaaa	gtgacccgcg	gaaactctat	ggcggatttt	2160
ttttttaact	ttcttcttcc	tgttaaaaaca	taggtcacta	actgtgatgt	tatttgtttt	2220
ctaagtggta	tgtgagattt	tctaattgtag	ttagaagttt	cattgtctga	tggacacaat	2280
atgcccttcc	ggttctattc	aaaccagcag	gatctgtcgg	tgcttagaga	tggtgctctg	2340
gactggaatc	aaatctaatt	tcagggaat	gaagatggaa	tttgaagggtc	acttttaaaa	2400
ttaagtcatt	gatgtctctg	ttacagagt	tgacagagga	tccatgtctg	tgacacagga	2460
cgggtgggaag	cctgagagag	agtgaatga	tgtgatacac	tgaaatgact	tttgttttcc	2520
ttctaactca	tacaaaactg	gtttggaaag	cttttgcttt	ggaagcgctc	gacattagaa	2580
caggccaaac	tggactgtct	gttcatagcg	tgctgaata	agaaggcctc	ttaggagacc	2640
agagggagca	gagtggctgt	gtcctgcgtg	ctcttcaccc	tctggggcgc	ccctgctgcg	2700
gctggcagggt	gcagacagcc	tttgctggtc	cccagcacgt	ccagggtggg	tgctcccttg	2760
cccgcagaa	ccatccccac	tgtgaggctg	tgagagattt	gtggcaggaa	ctgtttatga	2820
ggctctagtt	gttgcgtttg	tggcgggaaa	gttaagaaac	atagccctta	aggaaaccac	2880
ctttatgtat	tttcttaaa	cacgccttta	aataagcaaa	aactttaaaa	ggcaggaaag	2940
agaattctta	ggcaaatcca	gagaaataag	tgctagttaa	tactaatcac	ctcctcctct	3000
gtctctcatc	ctcctttctc	ccatcaaagc	aaaatatggc	ctcaccacca	gccccaaatc	3060
agtgtctcaga	ccctctctgt	gtctgtgtgc	cctcctggga	gtcagtcagc	gctcaggcca	3120
ggactgtgca	gggcccagcca	gcccattgcg	tagtcaggag	cacaggcaag	gggtgcttgt	3180
ggcagtgccc	gggcacctga	gccccagctc	gtgtgttaaac	gtgctgacgg	caaggggcaa	3240
tggagtga	ttcccaacta	agaaaccact	attatatatt	ttttcccttc	agtcacatag	3300
acttcagaca	actctctat	tttttatgga	tttttcagct	catttcagat	gaaggaaacta	3360
agtcattgtg	aactgtctct	tgagatctaa	aaacaagatg	acttttctctg	gcacatatctc	3420
caaagcaaag	actttgttgc	ctgctgctta	ttgtctaat	tacagggata	tttaattttg	3480
tcaggtctat	gtatatattat	ccagctatac	ttacttgcac	agtggattgg	agagaaaagg	3540
ttctccagtg	tgcaactca	tcggtaactct	ttctgcattt	ccctcgtgct	gtgtcccgtc	3600
cgggttccaa	tggacagtat	cagggtctgt	ttgacttagg	tctttcagtt	ttcctttcgg	3660
ttccctttta	aaaatgtgat	tgttaacctg	cctcttgaaa	gattcaaccg	gggtgtggtg	3720
ctcacgcctg	taatcccagc	acattgggag	gccaaggcag	gtggatcacc	tgaggtcaga	3780
agtttgagac	cagcctggcc	aacatggtga	aaccccgctc	ctactaaaaa	tacaaaaagt	3840
agccaggcgt	ggtggcgtgt	gcctgtagtc	ccagctactt	gggaggctga	ggcaggagaa	3900
tagcttgaac	ctgggaggtg	gaggctcgag	tgagttgaga	ctgcaccatt	gcactccagc	3960
ctgggtgaca	aagcaggact	ccgtctcaaa	aaaaaagaaa	agattcatga	tgctgctgct	4020
cccagaagggt	ttgtctggatg	tgtttacata	ggactctaac	ttgtgtgcac	tacagtgtgt	4080
caccagggtc	agtgaattcac	cccagtggtg	ggccagacca	tgactgtgta	gcaggaaatgt	4140
tttaatttgt	gcttccttag	taaattgaaa	tatcagctga	gagattattt	gctgctgtta	4200
ttcaaaaggc	catttatgaa	gttagtattt	gagccccata	agattcttaa	aaagcctcca	4260
atcattttaa	ggaagaaatc	agagttgcta	taaaattcag	taaaaagctc	atagccaaac	4320

ggctgtgctc	agatggaaag	tctgagctga	ggttgggtctc	ttgccaaacc	gtggctgttg	4380
tgtgttggtc	ttcatgtctt	cgagttcatt	ttttttcatt	ctgcctattc	tggcatcagc	4440
tcacttgagg	agtcctcag	ccttcttgta	tttaaggcat	cgtcttagac	tttgtggctc	4500
taaagtacct	gtctgttgag	atttcaagtc	tcttgtcacc	atcctcacac	atgacaacaa	4560
aaccataaat	gcataagtg	cctttttgaa	ccaagacttt	gcaaactgat	ctctcccccg	4620
tgaaggagtt	gagcacatta	gcaacaatgt	acattaattt	tggattttca	ttttcatgtt	4680
ttattttgta	aatattatct	gatgtttgga	gcttgagtat	acagactgta	aatatagttc	4740
ttgtatttgt	actaattctg	attcttttgc	tgtatagcct	tagatgtgca	atgcagacac	4800
tatctaactg	tgtgtggtaa	ccttgcgtca	cggagctggt	agtgaacgag	gtaaaaataa	4860
taaaggtaca	gccagtgcac	cagaaggttc	tcgatgtgca	tttattcttg	cacccttga	4920
aaggtaattg	cacaaagatt	tcttttcttg	atttgcaaag	ataatacctt	tctaagacag	4980
aagtcacgat	atcatcgctt	aagtattcct	ttctgatatt	caaaatcgtg	gtttttatat	5040
aaccaagaaa	gctaatatgg	tgctgtttct	ttgaaagtac	ttttctccca	aagatgtaag	5100
tggttatttt	agctagaaga	tttggtgttt	ttctcctgaa	gcctccttgt	atgcctcca	5160
ataattctgt	agtgttgtgt	tggcttcttt	tttttttttt	ttttcttttt	gagacagagt	5220
cttgcctctg	caccatgct	ggagtgcagt	gatgtgatct	cgggtcactg	caacctctg	5280
ctcctgggtt	caagcgattc	tcctgcctca	gactcctgag	tagctgggat	tacagggtg	5340
cgccaccatg	cgtggcta	ttttgtatta	ttattattat	tattattatt	attattttat	5400
ttattttatt	atttattttg	agatggagtc	tcactctgtc	gtccaggctg	gagtacagt	5460
gcatgatctc	ggctcactgc	aactttccac	ctccgggtt	caagcgattc	tccctgcctc	5520
agcctcccaa	gtagctggga	ttacaggcat	ccatcacgcc	tggctgattt	tatttttagt	5580
agagaggggt	ttcactgtgt	tggccaggct	ggctcaagc	tctgacctt	gtgatccacc	5640
cgctcagcc	tcccaaagtg	ctaggattac	aggcttgagc	caccgtgccc	aacctataat	5700
tatttttttg	agatggagtt	tgactcttgt	cacccatgct	ggtgtgcaat	ggcaccatct	5760
cagctcactg	caacctctgc	ctccccagtt	caaacaattc	tctttcctca	gcctcccagg	5820
tagttgcaat	tacagggtgc	cgccaccaca	cctggcta	ttttaaaaat	atttttagta	5880
gagacggggt	ttcagcacat	tggccagact	ggctcaaac	tcctgacctc	aggtgatccg	5940
cccactcgg	cctcccaaag	tgctgggatt	acaggcgtga	gccaccgtgc	ctggccatgt	6000
tgggtttttt	tgggtgggga	agggtaaatg	gggatttgaa	aagttgaaca	tgtcaattta	6060
atttaacaag	ccctcatcac	gagcagagca	tgagcagggg	ccactgtcct	gggtgtttgg	6120
ggagaaacag	aagaaggag	ggaggagcag	ccctcagggt	aaaagcaatg	atttgtcca	6180
accaatattt	gagtacccac	cctgtgcctg	gtgtgtctgt	gggtgcagta	attcagcagc	6240
caacaaagca	agcccatgca	cttgtgcctt	cccattccag	tggggaagac	aatgtttaaa	6300
caaattttaca	acatcgggtc	taagtatttt	ggaggaaagc	agctaaataa	aaggatgaaa	6360
gagggatggg	aacgagggat	gttttagatg	catagtcagg	gaaggcctct	cttcggagat	6420
cacatttgag	cagactctag	aatgaaagga	tagggtaagc	catgcaaacc	cctgggcaaa	6480
gaggtctcca	agttagagaa	tgaagccctt	gaggcagcag	tgtcctcagt	aggttccaga	6540
aatagcaagg	tcgtgtgtac	agagtcaggg	actgggagcg	caatagaaga	catcagaaa	6600
tagccaggga	ccaggatatt	tagggcttag	gtgaggactt	ggaatttcat	tagagtgaat	6660
gggaagccat	tgaaggcttt	ggagcagagg	agtcacaggg	gcttatttac	atttttataa	6720
gaccattctg	gaaaacagtc	tttgtactca	ggcagggaca	agtggaaaaa	aggggcaaaa	6780
taagattgtt	accccgat	tccaggggag	gagacgggtg	ctcagactaa	ggtagtagag	6840
tataggtggg	acgaaatggg	cagattcaag	gtacattttg	aagttagaac	agttttctga	6900
gagacttcat	gcagagttgt	tggagagaaa	ggagaaaagt	aactaaaagg	gtaagtgcct	6960
gagtaaaaga	acagcattgc	agttttctaa	gggtgaagaca	attggtagaa	caaaagctga	7020
gaatgggtcat	gcctgtaatc	ccagcacttt	gggaagccaa	ggtgggagga	tactggagc	7080
ccaagacttc	gagaccgacc	agcctgggca	atgtagttag	accccatctc	tacaaacaat	7140
taaaaattag	ctgggcatga	tgggtgcacgc	cagttagtgcc	agatacccag	gagactaagg	7200
cagaaggatc	gcttgagccc	aggagttgga	agctgcagtg	agctgtgatc	ttgccactgc	7260
actccagcct	ggtcaacaga	ggtgagaccc	tgactgttaa	gaaatagcca	ctttgggagg	7320
ccgagcgggg	cagatcacct	gaggtcagga	gtttgagcca	gcctggccaa	catggtgaaa	7380
ccccgtctct	actaaaatac	aaaattagcg	gggcgtgggtg	gcaggcgctt	gtaatcccag	7440
ctattttggga	ggctgagaca	ggagaaccgc	ttggaccacg	gaggcagagg	ttgcagtgat	7500
ctgagatcac	gccactgcac	tccagcctga	gcaacagaga	gcgaactgtc	tcaaaataat	7560
aataataatt	tgatttgagt	catgttcact	ttcagatgcc	aacacatgca	cctaagtgtg	7620
tagtcaacaa	aacagtgggc	tggactagcg	ggattcaagg	ggagtgggtg	gagctggaga	7680
cacacatttg	ggagttggcg	gcataagat	agcagatcga	gcctcaggca	gggaaggaga	7740
cctggagcgt	gtgtgtggct	gacaggaacc	aggactgat	cttggagcct	ggtgcgctcc	7800

```

aacacatgga ggtcaggaag agagaggagt ccagccagga ggacaagcag tggccgtgga 7860
gggagagtgt ggaagactga ggaagtgggt gctttgtcca gggcagccaa taggttacag 7920
gaaggactga gcagggaacca cagggtttgt taactgaaag gtgtaagaag tccgaggag 7980
ccaggggata ccctaatttt tcccaatttc agaaccaatt aagaaacaaa aaataagacg 8040
atgggagatg ggagaccaaaa ataccaccct tattactgat aaaactgctg tttagaaaatg 8100
tggttacatc tgggaacact ggatttcttt tcttttcttt tttttttgtg atggcatctc 8160
gctctgtcgc ccaggctgga gtgcagtggg gtcatcttgg ctactgcaa gctccgcctc 8220
ccagattcac accattctcc tgcctcagcc tcccagtag ctgggactac aggcacccgc 8280
caccgcgccc ggctaatttt tttttttgta ttttttagtag agacggggct tcaccatgtt 8340
agccaggatg gtctcgatct cctgacctca tgggtctgccc gcctcagcct cccaaagtgc 8400
tggaattaca ggcgtgagcc accgcgcccg gcctggattt attttgtaag gctgaacctc 8460
agaatgaggc ggtttagagc agtgcttctt gaactttatt gtgcaccaga atccctggg 8520
gatcgtaact aaatgcagg tctgattgag tagggcttgg gtggagcctg agattctgct 8580
tttctaataa gcttccaagt gatgtcagta ttgccattgt ggggatcact ctttgagtag 8640
cagaagttaa gaggaacgca ggcataatgt cccctgaagg cagccgagggt tctgagagag 8700
agggaggaag tggccaggca gtctatgcct aaccgctcct tccagactca caggaacctc 8760
ctagtaatgg ggctcacttc tcatggaggg aggcattgcag gattgcttct acactagcaa 8820
ggctattggg gaggggagca tttgtttgag tgggtgcctaa ttggagtagg ttctagggaa 8880
agtgggagga gaggaggggtg aaacagtaca aacaattctt tcatagattt ttctgtaaaa 8940
gggagaaaaga caaatggagt aactggaagg ggatatgggg taaaggagag gctttgtgtt 9000
ttaaagaagg gaaatagcat agcttgtgca tgtactaatt ggaaaaaatg aactgggagg 9060
gaaaacctgg cagtggggaa gacagtgagg tggagagagt tgtggagtgg gcctgagggg 9120
ctggggggcca gttgcacagc agatgaggta tggcctagat ccaactgagc accctggctt 9180
atatccacag tgctgccgac agctcagtga taggaacact gcaagtctct ggattgctag 9240
gactcttcag tcttaagtta atgtctggct gggcggtggg gctcatgcct gtaatcccag 9300
cactttggga ggctaaggcg ggtggatcac ctgagctcag gatttcaaaa ccagcctggc 9360
caacatggtg aaacctgtc tctactaaaa atacaaaaat tagctgggca tgggtgggtgg 9420
tacctgtaat cccagctact cgggaggctg aggctggaga atcacttgaa cccgggaggc 9480
agaggttgcg gtgagccggg atcacaccat tgcaactcag cctgggctac agagcgagat 9540
ttttgtctca aaaaaaaaaa aaaaaaaaaa gttagttaat gtcagctcta gggcttatgt 9600
caggccacgt cttctgaaa ctggacttgc agtttaaaat gggagatcat ccccgaaatc 9660
gtgcatatta tgctggttgt gccctcaact agacctcacc caggagcatg taggattgaa 9720
tcctcactag ggtgcacgc ttagtaaatc cccatgtctc ttgcaaagct gatagtttgg 9780
gaagtcaggt gacctatgg

```

<210> 75

<211> 13864

<212> DNA

<213> Homo sapiens

<400> 75

```

cctaggctca agtgatctgc ctgccttggc ctccataaat gctgggatta cagccatggg 60
ccactgtgcc cggccataat ttttgaattt tttttttttg gtagagatgg gtttccgcca 120
tggtgcccag gctgttctcc aacctgggc tcaagtata ctctgcctc ggccttccaa 180
agtgtctggg ctataagtgc aggtgtggac caccgtgctt ggctttttt ttttttctt 240
tttttttttg agacagggtt ttggctctgt cactcaggct ggagtgcagt ggtaccatca 300
tgactcattg cagcctcaat gtcccagcct caagcagctt ttccacctaa ccctctcgag 360
tagctgggac tacaggcatg caccaccaca cctggctagt cttattttta atttttgtt 420
ttttaagtag agatgggggt ctactatgt tgetcaggct ggtctccaac tcctgggctc 480
aagtgattct cccacctcag cctcccaaaa tgetgggatt acaggcgtga accgcatgc 540
ccagcagaaa aattgtcatt ggaataaagt ctggggtttt gttaaaagtt ttatatcggc 600
cgggtgtggg ggcccatgcc tgtaatccta gcactttgag aagctgaggg gggagattcc 660
ctgagctcag ggattcaaga ccagcctgga caatgcagtg aaacctgtc tctactaaaa 720
tacaaaaaat tagctgggag tgggtggcgtg cacctgtagt cctggctact tgggaggctg 780
aggcaggaca atttcttgaa cccaggaggc agagggttga gtgagccgag atcacgccac 840
tgactccag cctgggcgac agggcgagac ctggagtga ggcaaatga tggctccctg 900
cagccttgac ctccccagg ttaggtgatc ctcccacctc agtttttcta ttttttagtag 960

```


agccctccac	ctccccgggt	caagcaattc	tcttgccctca	gcctcctgag	tagctgggat	1020
tacaggcatg	tgccaccacg	acgggttaat	ttttgtat	ttagtagaca	cagggttata	1080
ccatgttgcc	caggctggac	ttcaactcct	gggtcgaagt	gatccacctg	tcttgcccc	1140
acaaagtgt	aggattacag	gtgtgagcca	ccacacctgg	ccagcagttt	cttaaaaagt	1200
tacacttacc	ttaaaaccca	gcaatccact	cctaagtata	tgtctaaaag	aaatgaaaac	1260
aacaggctgg	gtgtgggtgg	tcacacctgt	aatgccagca	ctttgggagg	ctaagggtgt	1320
agctctccag	accacccagg	gcaacatggt	aaaaccccg	ctccactaaa	aatacaaaaa	1380
aattaaccgg	gtgtgggtgg	gcacacctct	agtcccagct	acttgaggag	ctgaggcagg	1440
agaatcactt	gagccccaga	ggcaaagggt	tcagtaagcc	gagatcgtgc	cactgcactc	1500
tagcttgggc	tacagagtga	gactccatct	cacacacaca	cacacaaaag	aaatgaaaaa	1560
aacaatttgt	acatgagttc	aaaacagaat	tatttatttc	ccaaactaga	aacaatccaa	1620
atgtctatca	acagataaat	ggataagcaa	atgatgacac	aattgcatta	atggaatacc	1680
actcagcaat	gaaaagggaac	aaaccactca	tacctacaac	acagatgagc	ctcagaaacg	1740
tgatgctaag	tgaaagaagc	cagaccaaaa	aaattatatg	ctattattcc	atctctatga	1800
aatttctgga	aaaggcaaaa	accatgcaaa	gtagatcaga	ggttggtctg	gggtgagagc	1860
agagactgac	tacaaatagg	cccaagggaa	cgttttgggg	tgatggaagt	tttctataag	1920
tggattatgg	tgatggctac	acaacagtat	aaattaaagg	tcattccaaat	gtgtacttac	1980
aatgtttgaa	ttgtatgaca	tgtaaattat	ctcattaaat	ctgtatttta	aaaaaagaac	2040
tgtgctgtga	agtttgacat	attttaaaagt	aggatgtctt	agccgggcat	ggtgtgtgat	2100
gcctgtagtc	ctagctactc	aggaagttga	ggctagaaga	ttgctcgacc	tcaggagttc	2160
aaggctgcag	taagctatgg	tcattgccact	gcactccagc	ctgggcaaca	gagcaaaagc	2220
ctgggtcttta	taaaaattaa	aaaccggccg	ggcacagtgg	ctcacacctc	taatccaga	2280
actttgggag	gctgaggtgg	gtggatcact	tgaggttagg	agttcgagac	cagcctggcc	2340
aacatggtga	aacctgtctt	ctactaaaaa	taaaaacatt	agctgggcat	ggtggcacac	2400
acctgtagtc	ccagctactt	gggaggctga	ggcaggagaa	tcgcttgaa	ctgggaggtg	2460
gaggttgtag	tgagcccaga	tcgcgccact	gccctccagc	ctggagacac	agccagactc	2520
catctcaaca	atgacatcaa	aaaaaggccg	ggcacgggtg	ctcacgcggg	taatctcagc	2580
actttggggg	gccaaaggcgg	gcggatcacg	aggtcaggag	tttgagacca	gcctggccaa	2640
gatgggtgaaa	cccattctct	actaaaaata	caaaaattag	ctgggcgtgg	tggcgggcgc	2700
ctgtaatccc	agctacttgg	gaggtctagg	caggaaaatt	gcttgaaccc	gggaggcgga	2760
aggtgcagtg	agctgagatc	acaccactgc	attccagccc	ggcgagacgt	gcgagactcc	2820
gtctcaaaaa	aaacaaaaaa	aatctaaaac	tcaaacttct	gaataacaat	ttcctcctag	2880
caagaaggga	ctcagtaaga	taagaagcgc	tgttgggcta	ctttgcaaat	gtctggctta	2940
agatggctgg	ttttttgtat	ctgcctctgc	atttaacctg	gtccatctcg	cgggtccatc	3000
agcctctaca	aaatgagaag	gggttcaata	ccgttaactc	cgggcctggg	taaaagactc	3060
aagtcttgac	cccattcatc	tccaaccaat	acataccccg	cctgcgctgt	ctgcgcctgg	3120
gtctcttcaa	ccgcagtgag	cggctcgacg	gctccacatc	agggtcgccc	tgaggctcag	3180
ccttcccccg	ccccattccg	agtgcgcaca	ggaactgaacg	agcacgcccg	gtccctgctc	3240
cggagcggag	gacacgacgc	ggaccgcac	ggtgcaccgc	agtgaacctga	ggaaggagcg	3300
acgggcgctc	gcgccaagg	cgtccgagtg	cctggtaaac	tgtaaaagcg	ggtcctgcgt	3360
gagttgctat	ggctacagct	gcgccaggcg	gacggcctgc	aggaccgagg	tgacgtggg	3420
acgagcggaa	agctctgcgc	gtgggcgggg	agcccggagc	ctcgccgggg	caatgtcatc	3480
taggtgctcg	gcgctccact	gatccggccc	ccgggggtgg	gcgggcacgt	ttgcctcgga	3540
tggtctaaca	ggcgctgggg	agagccaatg	gtgtggcttc	atggctccac	ccccttccat	3600
tcgattggcc	ggcgccgaaa	agccgggcgt	gagcggccgc	agtttctgga	gggagccgct	3660
gcgggtcttt	ccctcactcg	tcctccgcgc	gtcgccgctc	ttcggttctg	ctctgtccgc	3720
cgccatggcc	cagtgagtga	ctcgccaggg	gcagcccggc	tcggcctcag	cgggcgggga	3780
actctttggg	ggtcgagatc	tcctctgttc	tctccgacgc	ctcccaccct	gggggtcgcc	3840
tgagctcact	tggggtctct	tgaccctggc	cctacggcgt	ctcgggccca	gagctccttc	3900
cctgcggggc	cggccccctg	ccctctcggc	cgcgcaggca	tggggcgggg	cgggtccctt	3960
cgagggcgag	ggaggaggcg	cggccaggcc	tcgccgagtc	tgacgggaca	cctgcgggac	4020
gcgtgccagc	gggagccggg	cgcgaggcg	gggctggggg	ccgcctgccc	ggccgaggtc	4080
tgacgcgtgc	gcgcccggct	tctggggggc	cgcggggagg	cgcggaggaa	agtgcagact	4140
cccagtcacg	gccaaatgtg	gaaggaccgg	accctgggt	tgacgcgcgt	cgagcgggtc	4200
tgactctttc	ctttgttctg	tttctgcctc	tctagagctg	acatcgcgct	gatcggtatg	4260
gccgtcactg	gccagaactt	aattctgaac	atgaatgacc	acggctttgt	ggtgaagcgc	4320
gtgggcgcgt	tgtctctct	ctggttcccg	ggcgctttag	ccgagggcgg	cgataggttt	4380
gggagcctac	gggtctcctg	gccgtgcttt	gctaattgtg	tctgttgctg	ctcgtggcat	4440

ttttgtatgg	aaaggagaag	caccctgtag	gcgtggggcg	gccgatcccg	aacttagtcc	4500
tgcggagtg	gcctgtgggt	ccgtgaggtt	cacagcccga	atgaacgaat	tagtgtctta	4560
agtagagaag	aaggggtgcg	gaggagaacc	cttgctgggt	gtgtagagct	ctaacttgat	4620
tgctgatga	gatctgggga	gagtgaatat	gtttcttcta	aatgttaaag	tggcttagac	4680
gccaggatga	tcaataacaa	cagatagagc	ctgttgaacc	ggccagtcc	tggatttgat	4740
tttgagtcct	aacacgttgg	gtgtggattc	tacctgacac	accgggggta	gttggccttc	4800
gcctcggttg	tccgcggtt	tcctcctact	gaggtgacat	aactttacag	tgagcctccc	4860
acagctgggg	gaagaaaagg	caaaggcagg	tctgacctcc	ccagaacttg	ggttgaatgg	4920
aaaggtcatt	gttacttttg	ccacagctct	aaagtcttgt	gtgtcctgga	tctcctactc	4980
aggacttttg	tccttctagg	tctgtgcttt	taataggact	gtctccaaag	ttgatgattt	5040
cttggccaat	gaggcaaaag	gaaccaaagt	ggtgggtgcc	cagtccctga	aagagatggg	5100
ctccaagctg	aagaagcccc	ggcggatcat	cctcctgggt	aaggctgggc	aagctgtgga	5160
tgatttcac	gagaaattgg	tgaggccagc	tgtgctctca	gctgctacca	cgatagcagc	5220
tgtttttgg	ttcttccttt	agttctcctt	cttttaactc	tagagatttt	ttttttcaa	5280
tttctgctaa	gctctgacca	aatgattgct	taactgttgc	agtgttgggt	aacttgataa	5340
gcgcttatga	agtaactttg	tcctttgggt	gtagtaattc	tgagaatact	aacagacatt	5400
tcaataaaca	ttaaaggcgg	gcacagtggc	tcaggcctgt	aatcccagca	ctttttggga	5460
ggctgggttca	gatggatcgt	ttgagcccag	gagttcgaga	ccagcctggg	caacatggcg	5520
aaaccctgtc	tctacataaa	attaaaaaat	tagctgggta	tggtgggtga	agcttatggg	5580
cccagctaca	agcttatggg	cccagggtcg	agaccagcct	ggccaacatg	gtgaaacccc	5640
gtctctacta	aaaatataaa	aattagctgg	gctttgtggc	tcatgcctgt	aatcccagtt	5700
actcgggagg	ctgaggaatg	agaatcactt	gaacctggga	ggtggagggt	acagtgcatt	5760
gagattgtgc	cactccagtt	tggcgacaga	gcgagactcc	gtctcaaaaa	aaaaatgaaa	5820
ataaaatcaa	gatctcctta	gggaatccta	gggaactgga	tgcttatttt	tgtaccaaac	5880
aatttgttgg	ctttagcagg	tatatctttt	ttggaagaaa	aaagtagggg	aaccagtgga	5940
aataatgtgt	ttagataccc	aaaataattc	tatagtaaca	actctgaaaa	aaccaggcca	6000
ctcccattta	gaagaaatgt	tttgctgtaa	gcagtgcagt	gatagctcag	gggaggctga	6060
gcattctctt	ctagaggagt	cgtgtcaaca	gtggggttgt	ttccacaggg	agaaggattt	6120
gtaaccagta	tgccactgtt	tttcaatcaa	atgacctaga	aaggaagaac	actgagttta	6180
aaaaaaggac	atactaaatt	ttttgtgtgg	caagctgcct	gtaatcagtt	tcagacagag	6240
aaaactgaaa	aatggtggat	tattcttcag	tataggaaaa	tactaagtaa	tgtaaactgg	6300
agccttgtag	ggggaagatt	gaataatata	atgaagccca	ggctggggcg	ggtggctcac	6360
gcctgtaate	ccagcacttt	gggaggcaga	ggtgggtgga	tcatgagggt	aggagatcga	6420
gaccatccta	gctaaccacg	tgaaccccca	tctctactaa	aaatacaaaa	aattagccag	6480
gcgtgggtgg	gggtgcctgt	agtcccagct	acttgggagg	ctgaggcagg	agagtggcgt	6540
gaaccgggga	ggcagagctt	gcagtgagcc	gagatcacac	cactgcattg	cagcctgggt	6600
gacagtgcga	gactccgtct	caaataaata	aataaattaa	ttaattaatt	aataaagtaa	6660
taataataat	aaagcccagc	ctgggtgggt	tgctgtaggt	agatattcat	gttcaaggct	6720
ctgtctcttc	ctgacctcgg	aactgttgct	ataaaatcat	tcattcatac	actaaacctc	6780
ttgatattga	tttactgaat	ccccactctc	ttctagacac	attatagtca	gtgtttaatc	6840
tgtatactta	cttaaaaaata	gaaatggggg	cttgctatgc	tgtccatgct	ggtctcaaat	6900
tcctgggctc	aagcgatcct	cctgcctcaa	cctcccaaag	tggtgggatt	acagggtgta	6960
gccactgagc	ctggtcagcc	ctaaactttt	aaatagtgtg	cagctctggc	cacagagagg	7020
attattgaag	attaagtagg	ctgggtgcgt	tggcctcctg	ccaagccagg	aggcttttag	7080
cccaggagtt	tgagaccagc	ctgggcgaca	tggtagact	ccatctcaaa	aaaaattttt	7140
tttttttgag	acggggtctc	actctgtccc	ccaggctgga	gtgcagtgtt	gcgatctcag	7200
ctcactgcaa	gctccacctc	cggggttcac	gccattctcc	tgccctcagc	tcccagtag	7260
ctgggactac	aaggcgctct	ccacaacgcc	cggctaattt	ttcgatattt	tagtagagac	7320
gaggtttcac	catgttagcc	aggatggtct	tgatctcctg	accttatgat	ccaccacct	7380
cggcctccca	aagtgtctgg	ataacaggcg	tgagccaccg	cgctggcct	acaaaaaaa	7440
ttttaaaact	agctgggcat	tgtgggtcaa	ggagttcaaa	gttgcagtga	gtcatgttca	7500
caccactgca	ggagttcagg	gtttcagtga	gccatgttcg	cactcctgca	ttccaagctg	7560
ggcaacagaa	cgagactctt	tttagactat	gtttatttgg	aataaattct	tgtttgtttt	7620
aatttgccaa	ggtatgtttc	attttggtcc	atcttaatgc	tggtgtctgg	gtacaggtag	7680
cattgttgga	tactgggtgac	atcatcattg	acggaggaaa	ttctgaatat	agggacacca	7740
cagtaagtgt	tcttcagtc	agattcttcc	aggttccgag	aacattctag	aaaaaagtgt	7800
cagcatcgca	tatgtgacag	taggggtgaac	tgccctgtgg	tactgatttt	tttgagatta	7860
ctactgatac	aatagttctc	agcctttttt	tctgttaaga	cacacttaac	agaagggccg	7920

ggtgtggtgg	ctcacacctg	taatcccagc	actttggggag	acggaggcag	gtggaccaag	7980
agggtcaagag	atcaagacca	tcctgggctaa	catggcgaaa	acccgtctct	actaaaaata	8040
caaaaaatta	gcctggcatg	gtggcatgcg	cctgtagtcc	cagctacttg	ggaggctgag	8100
gcaggagaat	tggttgaaac	tgggaggcag	aagttgcagt	gagccgagat	catgccactg	8160
cactccagcc	tgggcgacag	agtgaactc	catctgaaaa	aaaaaaaaaa	aaaaaagaca	8220
cttggtgggt	gagattctca	gtcacacata	caactcaaag	gatgactaac	tcagatacag	8280
caggctgaga	attacgtttt	aactcctccc	cttccccttc	caagtaatcc	atgatatgtc	8340
agtctataac	tggtttagaa	ccactcctct	aatgggtatca	aatgctgagg	gaattcctgt	8400
gtgctctgaa	gtgctgaatg	gcattaagtt	gtattacacc	tactcttcgt	tgagtcctat	8460
tcaaggtcct	ttccagtaaa	atgccaatgt	gtgtttggct	taattatttt	actttgggga	8520
tgaggtaggt	atcgtagaat	tccatagttg	tattgttttg	ttttttaact	cctacacata	8580
ggggattaac	tttctgagt	catcagttat	tcctagatcc	ttgggtcatt	tcctgtaa	8640
gtaggctctc	cattcctatc	ttatacttcc	tctcatttat	aagggaaca	tttttgggta	8700
gcataatgaa	acatggaagc	ataatgaaac	atggaagcat	aatgaaatta	ttttctgtc	8760
cttcagagac	ggtgccgaga	cctcaaggcc	aagggaattt	tatttgtggg	gagcggagtc	8820
agtgggtggag	aggaaggggc	cgggtatggc	ccatcgctca	tgccaggagg	gaacaaagaa	8880
gcgtgggtgag	tgccatcagc	actgtgccca	tctctgtaca	agggagctgg	actttgagaa	8940
cgaataagcc	aggagcagtt	ctgccaccct	gatctctgtg	gtgccctgag	tgtgacagct	9000
gggagatgct	ggcaatttct	tttatctaga	cattttgttg	ctttgatata	gtatatgtgc	9060
acaatcctct	tttgctttt	ttcttctgtt	atttctatca	agactgatac	ctgacgttct	9120
aaataggctt	ttttttttt	tcccgccag	gcaggagtgc	agtggtgaga	tcttagctca	9180
ctgcaccccc	cgtctcctgg	gctcaagcaa	ttcttgtgcg	tcacctcctg	agtagctggg	9240
actacaggca	catgccacca	tgccctggcta	attttttgcc	tttttagtaga	gacagggttt	9300
caccatgtta	ccttgggtgg	tctcgaactc	ctgaccttag	gcgatctgcc	cgcttggcc	9360
tcccaaagtg	cagggtattac	aggcatgaac	caccacactt	ggcctctaaa	taggctttaa	9420
ggaagcagtt	taggtaatgt	tctgtgcaat	gtctggatgt	aggaataagg	tctgcctctt	9480
ttagctgata	tataacccaa	aagtaactta	atgtgataat	cgtgggtaac	aggctgggca	9540
tagtggccca	tgctgtaat	cactgcccag	cactttggga	agctgcgggtg	aatgatcatt	9600
tgagcccagg	agttgaagac	tagcctggac	aacatagcga	gatcctgttt	ctacaaaaaa	9660
gtaaaacaaa	cattttttta	attaaaaaat	ataaattggc	cgggcgtggg	ggctcacgcc	9720
tgtaatccca	gcacttcggg	aggctgaggc	aggcagatca	ccaggtcagg	agatctagac	9780
gatcctggcc	aacatggtaa	attcctgtct	ctactaaaaa	tacaaaaatt	agccgggcat	9840
ggtggcgtgc	gcctgtagtc	ccagctactt	gggaggctga	gacaggagaa	ttgcttgaa	9900
ctaggaggca	aggttagtg	agccgagatc	gcgccactgc	acttcaccct	ggcgacagag	9960
tgagagtttg	tttcaaaaac	aaaacaaaac	aaaacaaaac	aaaaatacac	acacacacac	10020
acacacacac	atatatataa	ataattgtgg	gcaatccgat	atatatataa	ataattgtgg	10080
gcaatccgct	tgccctggcc	tcccaaagta	ctgggattac	aggcgtgagc	caccgtgcct	10140
ggtctgaaat	atgattcttt	aaggctgggc	atggtggctc	acgcctgtaa	tcccagcact	10200
ttgggagact	gagatgggag	gatcacttga	ggtcaggagt	tcaagaccag	cctggccaac	10260
atggtgaaac	tctctactaa	taatacaaaa	attagccggg	catggtggag	ggcacctcta	10320
atcccagcta	catgggaggc	tgaggcacaa	gaatcacttg	aacctgggag	gcagaggttg	10380
caatgagccg	agatctcacc	actgcactcc	atcatgggtg	acagagcgag	actcgtcttc	10440
agtaaaaaag	aaaaaatgat	tctttttttg	agacggagtc	ttgctctgtt	gcccagggtg	10500
gagtgcagag	tgcaagtggc	cgatctctgc	tcactgcaag	ccccacctgc	caggttcacg	10560
ccattctctc	gcctcagcct	cccaagtggc	tggaaactaca	ggcaccacag	accacgcca	10620
gctaattttt	tgtattttta	gtagagacgg	ggtttcaccg	tgttagccag	gatggtcttg	10680
atcccctgat	ctcgtgatct	gcctgcctca	gcctcccaa	gtgctgggat	tacaggtgtg	10740
agccactgcg	cccagccaaa	aataattttt	ttattacct	ttctggtgaa	tgagtcgtgg	10800
gattctcttc	agtgtgttat	taataaaaca	cagaagtaga	gaggcctttc	tgcttctcag	10860
aagtttaaac	agctgtgtgt	gcagtggctt	gcacctgtag	tgccagctat	tcaggagact	10920
gaggtgagag	aactgcttga	gcccaggtgt	tcaaggccag	cctggacaac	atagcaagac	10980
cctgtttctt	aagaaaaaaa	aaaaagggtt	gaaaataact	atctcgaagc	acctgcacag	11040
tgagcagtta	gaaaggcaac	cagcagacaa	tgacagtaaa	agtatttgac	atatggagtg	11100
ctccagttgt	ttccatcagt	tctctttcct	catactgtgg	tggcagaagt	acaaatggca	11160
cctttaccag	aaggacactg	taaaagtcca	gtgaagctct	gcgggtttccg	gtgtggctgt	11220
cttcatccct	aatcctaaat	gttaactttg	caaccctgta	agatttcatg	tctgtaccag	11280
aaactttttg	tgagggaagc	ttgactggcc	ataggagagc	agaacagtga	gggaaagtct	11340
caagagtaat	atatccgcgt	gctgagctgt	ggaagggaatg	aacagcgggc	tttctctgaa	11400

tggtaatgta	gctctcaaaa	acgctgcctg	gttcttaate	caaatgtcca	gaaccattct	11460
gtgcctggca	gcacacatcc	agacaaatga	aagaggggtct	cttcacttgc	taaaagccat	11520
tataaggaga	aataaagaaa	agggaaaaaa	ttaaaagagg	atctctaaaag	gaactttcgt	11580
attgcctgct	gtttgcaatc	atactgtctg	ctgctgctgc	agtagaaatt	tctgagccgg	11640
gtgcatggc	ttatgcctct	aatttcagtg	actcaagagg	ctgagggtggg	aggagtgcct	11700
gatccgagga	gttcaagacc	agccacatca	acatagggag	accccatctc	tgcaccacca	11760
acaaaaaatt	agccaggcat	ggtggctcac	gcctatgggc	ccagcacttt	gggaagctga	11820
ggtgtgagga	ttgcttgagg	ccaggagctc	aacacccagc	ctgggcaaca	tagcaagatc	11880
ctgtccctac	aaaaaaaaag	ttttaattag	ctgggtgtga	tggcacacac	ctgtagcccc	11940
acctaactgg	gaggctgagg	caggaggatc	acctaagtc	aggagtgtga	ggctgcagg	12000
agccgtgatt	gtgccactgc	actccagcct	gggcaacaag	aagagaccct	gtctctaaga	12060
agacatttct	tctggtgctt	tgggtgatgct	tctgctcagc	ctttctgtct	gtagtctcag	12120
tccgatagtc	cagtctgctt	tgagggccca	ccaggacctg	gaggaggggc	cagtttcagt	12180
caaggggtctg	cagttgacct	tgagaactta	gcacattcat	tatctttttg	tgggcacttc	12240
cacctcccat	tagaaagaaa	aagatggggc	cagtgcgggtg	gtggcttatg	cctgtaatcc	12300
cagcacattg	ggtatccacg	gtgggtggat	cacttgagct	caggagtctg	agaccaatc	12360
gggcaacatg	gcaaaacccc	atctctacaa	aatccaaaaa	aatgagctgg	gtgtgtgtgc	12420
acatacctgt	agtcttagcc	acttaggggg	ccgaggcagg	aagattactt	gaacctggga	12480
ggttgaggag	gctgcagtga	gctgagatca	caccactgca	ttccagcctg	ggtgacaacg	12540
tgagaccctg	tctcaaaaaa	aaaaaaaaaag	aaaggaaaaag	ataggggttg	gtgtctatgg	12600
gtatgttggg	gtctatgggt	atgggctctc	agcccgctctc	ttctcattaa	ctgaaccaca	12660
ctgtttcttt	acacaggccc	cacatcaaga	ccatcttcca	aggcattgct	gcaaaaagtgg	12720
gaactggaga	accctgctgt	gactggggca	gttctgggct	actctttaa	gccaattggc	12780
aacatgggag	tgtctaagt	atgaagtgcg	tggagaaagg	ccaccgtggt	ctcccagggg	12840
ttagcttggg	gacataaacg	tctcgatctt	tgattgctag	aatagccaac	gcctagaatg	12900
catgcctgct	gttcacatct	ttgtatctta	gctgactgtt	catagccttg	aggttgatat	12960
taaaagcagc	cttctataat	tcactctaaa	gatgaattct	ttaaaaagga	ataggatgaa	13020
gtgaaaataag	attttttcga	gccatattat	ttcatggcca	aaggaaagaa	tgtcagaatc	13080
aaaagtggcg	tttgcttgca	tgggtgaaag	gtggaagatt	gaaggtaactg	ttgctgtgtc	13140
aacattccat	gaactgtgaa	aattccccat	cctgtagtgt	gggattcagg	cattctgtgc	13200
ttgaacaaaag	taacctgtgg	acttgcaccc	tactgaata	tgaaggaggc	ctaacctagt	13260
tcatagtaca	gtggtgcat	cttggctcac	cgcaacctcc	acctcccagg	ctcaagcaat	13320
cctcctgcct	cagcctcctg	agtagctggg	actgcagggtg	catgccacca	cgctagcta	13380
atatttgat	tttttgtaga	gacgggggtt	caccatgtca	ccaggctgg	tctcaaaactc	13440
ctggactctc	aagtcatctg	cctgccttgg	cctcaciaaag	tgctgagggt	acaggcatgc	13500
gccaccatgc	ccggcctcgt	gttgctgtta	aagtaaactt	tatctcatat	tgtagtccag	13560
ccatgctgtg	gatggaaaaa	agcattaggc	tcaggagacc	tgagtggcag	ttctggcttt	13620
ccataaactt	aactgtgaca	tcaggcaagc	cacgtccctt	catggacttc	agtttcctta	13680
tctgtaagat	atgggggttg	attacatgat	ctccaagctc	tcttcagctc	ctgattccct	13740
ttaattttat	atcagcaatt	ttaatgtgaa	ttttattatt	caattttatt	ttatatgaaa	13800
tcaatgctga	gggtgaaata	aggactcagg	cctttgagga	atccgggaag	ccctccctcc	13860
tagg						13864

<210> 76

<211> 22081

<212> DNA

<213> Homo sapiens

<400> 76

tctagaaact	atcctttaac	ttctgctaca	gttaaggctt	gtgaggctct	tcatttcccc	60
tctgaagtca	agcaaatacc	aatgctacaa	gctcagctgt	caaagaaact	atgggtgata	120
taaaaacgtt	ataaagcact	gaaataaaga	atttaatgtc	taatgttcta	gccatcaggg	180
cagtttataa	caataaaaata	aaggcggtta	tgccccagtg	ttagtgtaat	aggaaaaaaa	240
tagttcttcc	cataaaatat	ccacatctca	cagccaagaa	gagaagtgtt	tcacgaagaa	300
cgcattgagga	tgataatatt	cttggctctgc	tggctcagact	cgccacagct	cccaccacg	360
cactgctccc	aggtgaaatc	aacctttggg	gtttacagac	atggctgggg	aggccgaagc	420
ttcataccac	actgtcggaa	agtcagctcc	gaaatggccg	caatggctctg	tttgcgtgaac	480

tgcattctctt	tgtccaatgc	aacttctctcg	caaagacaac	ccacagtata	gtgaactgct	540
gccttttagcc	tctggggaaa	aacatcaaaa	tatttcacgg	gtaaggctgc	aaataagagc	600
ttttcacgcc	ttaaaaaatg	aagaccaagg	agagggtctg	ctcagcccaa	tccctctggc	660
gctttccata	atggctgagt	ggcttttcaa	gtgtactaat	aagttaatga	gaccactggg	720
agtgcgactt	gtggaaacat	tacttccttg	ttaatgggta	tgatttatgt	caggtaaaga	780
taagaaatta	gatggcaagt	cagtggggag	acaggtcaga	ctgatgcctg	ccaaggccct	840
gagtggtttc	actcacttat	tccaaactat	ctgcagagct	ccaactcagt	aagggcatat	900
gctaggtggt	tgggaaacaa	tgaaaaaccg	ggcaggggaa	tttgccctta	aggcagttaa	960
tcaacaatac	agaaggatcc	catccctctg	ctgcaagccc	ctggcagccc	caggcctgca	1020
cgctcacagag	gacagaagta	caacacggga	aaggctcaag	agggcacacc	caccctctc	1080
gatttggagg	gttgggaggc	cacctccacg	gggccctcac	tgctccttgg	caaacctttt	1140
caatactgaa	aaagatctct	ccaccccttg	gagaaaatta	ccgagagggg	aggatgagcc	1200
tcaattgcaa	gacaagctaa	gcaatggtct	cagccacgtg	tcgacagagt	tctgttgagc	1260
ccacctgtgg	gtactccgcc	tgggggccga	agacacagct	gagctgcacg	tgatgacagc	1320
tgaacccaca	agggcataaa	atctaccagc	aagtgttcaa	cgcataaggca	agaggaggag	1380
gaactgccaa	aacccaagtc	caggaactca	ggatagaggc	cagacagatg	aggagggtca	1440
ctactttcct	gaatttcaga	cctcacaaaga	ctaggtaagc	tgaaggcctc	tggtaggaga	1500
agccaaagag	gcatcaacct	gggaggcacg	aagatcacag	gtgtgatcac	tgcacactac	1560
agcctcgaac	tcctgggctc	aagtgaacct	cctgcctcag	cctcttgagt	agctgggact	1620
acaggcccac	aacaccctgc	ccggctcaag	gtcatctttt	ttaggtatgg	gtgggggtca	1680
gggtacagga	catgaattct	tctgaatgct	cttgggtcca	ggaatttttc	tcagatcttc	1740
ctcctctctc	tcctccctc	ccctggctg	ggctggggta	tcactgcact	tagaggctaa	1800
atcataaac	tcctcaaggg	caggaccctg	tcaattttgt	tcactgctgc	ctaccaagtg	1860
cctagaacag	ttggttacat	gaatgggggg	aaatcgtcta	caagctaata	acagctgagg	1920
ggcaaatttc	tcagcccatc	tttgagctt	catcagtaag	catttggttg	tctatttgag	1980
agccaggctc	tgttctaggg	actaagaaca	ggccggggcac	agtgggtcac	acctgtaata	2040
tcagcatttt	aggaggccaa	ggcggggccag	atcacttgag	gtcaggagt	caaaaccagc	2100
ctgggcaaca	tggtgaaact	gtctctacta	aacatacaaa	attagctggg	cgtggtggca	2160
ggggcctgta	atccagctg	ctcaggaggc	tgaggcagga	gaatctcctg	aacctgggag	2220
gtggagggtg	cagtgaggcg	agatggagcc	actgcactcc	agcctggaca	acaagagtga	2280
aactacgttt	caaaaaaac	aaaaaccaac	caaaaaaaa	cagggtaggc	aggaccaaag	2340
atgactaaat	gcaatgcacc	atccttaact	gaatcctgga	tgaaggaaaa	aagacagtta	2400
aaagaaacat	ctttaggaca	agtgggggca	cttgacaatg	cacattcaat	agagttttat	2460
caaaattaat	tgtccactt	cctgagtggg	acaatttatt	gaaatgatgt	agtagagaa	2520
tgcttttttt	ttttttttt	ctgagatgga	gtctcgctct	gtcaccagag	ctggagtgca	2580
atggtgcat	ctcggtcac	tgcaacctcc	gcctcccggg	ttcaagcgat	tccctgcct	2640
caacgtccc	agttagctgg	attacaggca	cctgccacca	cactcggtca	atttttgtac	2700
tttttagttg	gaggggggtt	ccatgttggc	cagtctgggt	tcgaactcct	gacctcaagt	2760
gatctgcccc	cctcggcctc	ccaaagtgt	ggaattacag	gcgtgagcca	ccgcgccag	2820
ccaatgcctt	gtttttggga	gatgtgtact	aaagaattaa	aatgtaaagg	cgaagtgtca	2880
aaatatctgc	aattaattct	ccaatcgctg	ggctgggagg	gaagcatggg	agcaaacaga	2940
gcaaaatgct	aactagtgtt	gaatcaaggt	gacgggcac	tgggcattct	gtaccgtgtt	3000
cttgcaactt	ttctgaaggt	ttgaacttct	caaaagacaa	ggggcagggg	agacagctgc	3060
tgcaagttaa	ctttgtagag	aggaaactcc	cgcgtctgga	gctcattccc	gcgtttcttc	3120
agtccgtcct	ctttaaggct	gccactccgg	gtcttgcttt	taagcctctt	cacggcaacg	3180
ttctcagcct	ctgacgccc	atatgcccgg	cgctgatgaa	aggaacgaat	gggatgccc	3240
cagctaccct	gacaagtgat	tattcttatg	acgattttgc	agagaagaaa	attgcgtctg	3300
ggccgagtcg	atacgatcac	aagttggcgg	ggcagagatt	cgaaccaca	tctaaggacg	3360
agctctgggc	ctgactgggt	cgcaccgcgt	ccctgcatca	gtaacgaggg	gtcgacgcct	3420
ccaggggccag	cgttccagag	ctcgggcccg	aaaccgccac	cgcgtacggg	cgtcacctgg	3480
aatgtcta	gccgagcttg	taccctcacg	aaaaccccat	ctgagaaggg	gaaaccgagg	3540
attcatcgca	aggccagaag	gtggcctctc	gcgcgcggac	cccgccgccc	gcacgctccc	3600
ctagaaccgc	ttcctcccca	gccagcgcat	gccagggtcc	agccgcgttg	ccgcggaaac	3660
cgccctccag	caccaccgcg	ggcagttaag	ccaacgcagt	cgcagccgcg	gggggcgccc	3720
gggggcgggg	tgccgatgag	aagccgcggg	gggctgcggg	gtacttttct	gtccagaaac	3780
tcgacgcctg	cctgccccag	cccagcccga	ccccggtttt	cctgtacctg	ttggtaaagag	3840
aatcgctgct	gtcctcgggt	ctcgcctcc	tcctccatca	ctgcggggcg	accctgggca	3900
aacgcaggag	ggccgagaag	gggcggtggt	gcgcggccag	gtcggatttt	ccgcgcggcg	3960

cgcgagcgac	gggcccgcgcg	ggcggacaaa	gtacgcagct	ccgccctgcc	tcgcgcgccc	4020
cctggcggcg	ctccgttgag	gggattccgc	cgtcggcctc	cagccagccc	cctgctcagc	4080
ttgctctgcg	gaggtggccg	ggcgacgcgg	ggacatgacc	accgaggtca	ctgctgcacc	4140
ccagagcctg	attcagcgcc	tggcacaaacg	ctgagcacca	ctctccgcga	aacacgtgtg	4200
cgcataggtg	caaagcgtgt	tccagtcggg	tgtagaggat	gcgtagccca	cgatttacag	4260
atcatgtaac	gcagtacaca	ttatcaggag	ctccatgcac	ctgtacctca	ggtgtatctc	4320
gcaaaatcga	ccatcaactt	tatcattcta	tcaccaacaa	tagcgtcaca	aagactacaa	4380
tgagtgaacg	acccgtgacc	tcattcagcg	agtggaaacag	gaactgcggt	gttgccattg	4440
gcaggagtat	agttctgaca	caagtgttac	tgtttttcct	ttatgttaac	gatgaagtga	4500
gaccatcaaa	cccaattttg	gtttgttttt	attgtagttt	tttgagaggc	agggctctac	4560
tctgcgcgcc	aggctggagt	gcagtggcac	caccaagact	cactgtaacc	tccacctcct	4620
gggctcagg	gatcctccca	cttcagcctc	ccaagtagct	gggaccacaa	gcctgcatca	4680
gcgcacctgg	ctaattttta	ttttttgtag	agaccaggtc	tcactatgtt	gcccaggctg	4740
gtatcaaaact	cctggcttca	aacaatcatc	ccacctcagc	ctcccaaagt	gctggaatta	4800
caggtgtgag	ccaccatgcc	ctgcctgtat	ttctaggttt	ttgttttatt	attttttatt	4860
gcctataatt	ctgtattctg	catttgtcac	aagcagggtg	tactttcaga	acgaaggaaa	4920
gcacataaag	ccactccttg	tcttcctttc	ccaggacgt	ccctcaagt	ccctaagctg	4980
gccaggggct	gaaacccaga	tcaaagcttt	ttggaggaat	cagcctctctg	aggactttcc	5040
tctgcatctg	ctcagtggtg	ggcatctgga	aatgacaggc	acttctcgcc	tctgtccact	5100
gctctctgtg	ggcatccag	tctacctgga	cagtcctcct	gcccgaagcag	ggcaagcctc	5160
tgacggattc	ccctaattggg	cagcatgggg	ctgggcaggg	caggccatcc	agagtgcagc	5220
caagcctgca	gcaggagaga	aggccggctg	ctgggtgggtg	agcagcccca	tttagagcac	5280
actgtggctg	caaagcccag	ctccctccct	tgagcctggt	gaccccaagc	aagtcacagg	5340
acgtggccaa	gcttcatgtc	ccttattttat	caactgggga	cagtagttcc	aacttcacag	5400
ggcagggtgtc	aggtttttaa	caattgcctc	acataagagc	taaagaaatt	gtaacaattc	5460
gtcccaggaa	gttctctgtc	tttgtacctg	tgtgttccct	catttttaaag	cagttgtctc	5520
ccaggattaa	agaacagtat	tccagtgcac	tgtgtgcaat	acagaggcac	ttaagagcct	5580
cagaggctag	gagcagtggc	tcataacctgt	aattcctgca	cttggggagg	ccgaggcagg	5640
tagatcactt	gaggtgagga	gttcaagacc	agcctggcca	acatgatgaa	accctgtctc	5700
taccaaaaaa	tacaaaaatt	agccagacat	ggtggcacat	gcttghtaatc	ctagcacttg	5760
ggaggctaag	gcaggaggat	tgcttgaacc	cgggaggtga	aggttgcagt	gagctgagat	5820
cgcaccatag	cactccagcc	tgggcaacag	agcgagactc	tgtctcaaaa	aaaaaggctc	5880
gagaaatagg	tcgagggttg	aggtattcat	tacagaaaaat	ggaactgggt	gtgggtgggtc	5940
aagcctgtaa	tcccaacact	tagggagacc	aaggcaggag	gatcacttga	gcccagttca	6000
aggctatggt	gagccgtgat	tgccccactg	ttttccagcc	agggtgacag	agggagacac	6060
tgtctctaaa	aaaaataatg	aaaaaaggat	atattaatat	ttggttgaaa	cttacttgat	6120
gaagaagtag	ccctataatc	tggccactag	atgtcagtg	tgactacag	cgtgaagcaa	6180
ggccagggat	gcccgcctgg	aatgttgcca	tgacactgag	cactttgcac	ttgtcctcgc	6240
tctaggcact	catttaatat	ctcatctgcc	ctcaaaaagta	ggtgctgtta	gccccatttt	6300
actactggga	acaggtgaaa	gaactctgcc	caaggctaaa	ctactgggaa	gtgatagata	6360
ccagatttga	ttattaggct	ggtttccgag	tttccggttt	atccactgcc	ctcaccataa	6420
ataagacaaa	gaccttggtg	ggtttcttta	atccttttca	tctgcattaa	ggagggttcc	6480
ataaatat	agttcagccg	ggcgtgggtg	ctcacgccta	taatcccagc	actttgggag	6540
gccgaggcag	gcggatcacc	tgaggtcagg	agttcgagac	cagcctcaac	atggagaaac	6600
cctgtctcta	ctaaaaatac	aaaattagcc	aggcgtagt	gtgcatgcct	gtaatcccag	6660
ctactcggga	ggctgaggca	ggagaatcgc	ttgaacctgg	gaggcggagg	ttttgcggtg	6720
agctgagatc	gtgcattgca	ctccagcctg	ggcaaacaa	agcgaactt	gaaggggtgg	6780
gttgcocctc	cacacctgtg	ggtgtttctc	gttaggtgga	acgagagact	tggaaaagaa	6840
aaagacacag	agacaaaagta	tagagaaaga	aataagggg	cccaggggac	cagcgttcag	6900
catatggagg	atcccgcgg	cctgaattcc	cttagtattt	attgatcatt	cttgggtgtt	6960
tctcggagag	ggggatgtgg	caggatcata	ggataaatgt	ggagagaagg	tcagcagata	7020
aacacttgaa	caaagggtctc	tgacacctag	ataaggtaaa	gaattagtg	ctgtgtctta	7080
gatatgtgta	cacataaaca	tctcaatgcc	ttgaagagca	gtattgctgc	ccgcctgtcc	7140
cacctccagc	cctaaggcgg	ttttccccta	tctcagtaga	tggaaacatac	aatcggtttt	7200
tatactgaga	cattccattg	cccagggacg	ggcaggagac	agatgccttc	ctctcgtctc	7260
aactgcaaga	ggcggttcctt	cctctttttac	taactcctcct	cagcacagac	cctttacggg	7320
tgtcgggctg	ggggacgggc	aggtcttttc	ctcccacgag	gccatatttc	agactatcac	7380
atggggagaa	accttgagca	atacctggct	ttcctaggca	gaggtccctg	cggccttccg	7440

cagtgtttct	gtccctgggt	acttgagatt	agtgagaggt	gacagcgtgc	tggcagtcct	7500
aaagccctcg	ctcgctctcg	gcacctcctc	tgcctgggct	cctacttttg	tggcacttga	7560
ggagcccttc	agcccaccgc	tgcactgtgg	gagccccctt	ctgggctggc	caaggccaga	7620
gccggtctcc	tcagcttgca	gggaggtgtg	gagggagagg	cgcaagcggg	aaccagggct	7680
gcgcgcggcg	cttgcgggcc	agctggagtt	ccgggtgggc	gtgggcttgg	cgggccccgc	7740
actcggagca	gccggtggc	cctgccccgc	cagggcaatg	aggggcttag	caccagggcc	7800
agcggctgcg	gaggggtgac	tgggtcccc	agcagtgcca	gcccaccggc	gctgcactcg	7860
atttctcact	gggcttagc	tgccttcctg	tggggcaggg	ctcgggacct	gcagcccccc	7920
atgcctgagc	ctcccaccca	ctccgtgggc	tcctgtgtgg	cccagagcct	cccgatgagc	7980
gtggccccct	gctccacggc	gcccagtcct	atcgaccacc	caagggtggg	ggagtgtggg	8040
cgcattggcg	aggatggca	ggcagctcca	cctgcagcct	ggtgcaggat	ccactgggtg	8100
aagccagctg	ggctcctgag	tctgggtggg	aggaggagaa	cctttatgtc	tagctcaggg	8160
attataaata	caccaatcgg	cactctgtat	ctagctcaag	gtttgtaaat	acaccaatca	8220
gcaccctttg	tttagccag	ggtttgtgaa	tgcaccaatc	gacactctgt	atctagctac	8280
tctggtgggg	ccttgagaaa	cctttgtgtc	tagctcaggg	attgtaaacg	caccagtcag	8340
cgccctgtca	aaacagacca	ctgggctcta	ccaatcagca	ggacgtgggt	ggggccagat	8400
aagagaataa	aagcaggctg	cccaagccag	cagtggcaac	ccgcttgggt	tccctccac	8460
gctgtggcag	ttttgttctt	tgcaataaat	cttggtactg	ctcactcttt	gggtccacgc	8520
tgcttttatg	agctgtaaca	ctcaccgcga	agatctgcag	cttactcct	gagccagtga	8580
gaccacgagc	ccacgagaag	gaagaaactc	cgaacacatc	cgaacatcag	aaggaaacaa	8640
ctccagatgc	gccaccttaa	gagctgtaac	actcaccgcg	aagggtccgcg	gcttcattct	8700
tggagctagt	gagaccaaga	acccaccaat	tccggacaca	ttagggagtg	gtgatgtg	8760
ttaacgagca	tgctgccttc	aagcgtctgt	taacaaaagc	acatcttgca	cagcccttaa	8820
tccatttaac	cctgagttga	cacagcacat	gtttcggaga	gcacaggggt	gggggtaagg	8880
ttacagatta	acagcatctc	aaggcagaag	aatttctctt	agtacaaaac	aaaatggagt	8940
ctcttatgtc	tacttctttc	tacacaaaca	cagtaacaat	ctgatctttc	ttttccccc	9000
aaaactccgt	ctcaaaaaaa	aaaaaaaact	gcactgtaaa	atgtcaatac	aaaaatcaat	9060
cttggctggg	cgtggtggct	catgcctgta	atccagcac	tttgggaggc	cgaggcggtg	9120
ggatcaccgg	aggtcaggag	tttgtgacca	gcctggccaa	catgggtgaa	ccccatctct	9180
actaaaaata	caaaaattag	ccaggcatgg	tgggtgcacgc	ctgtaatctc	agctactaag	9240
gaggctgagg	caggagaatc	gcttgcccag	gagggcgagg	tcgtagttag	ccaagatcat	9300
gccattgcac	tccagcctgg	gtgacagtga	gactacatct	caaaaaaaaa	aaaaaaaaatc	9360
aatctccatt	tcataggttt	attcaagaga	agataaaaaat	ttaaaaataa	ttatcgtaa	9420
atatatatg	tatcctgtaa	gcacatgagg	tcaggacttt	ggacttctct	caccccgaca	9480
gaggggtacct	agcacaatgc	ttggcacatg	gtaggtgtac	cataaacatg	ccgaatgact	9540
gaatgagtgg	ggcgatgaac	tgtgcacgcc	gacaggtcag	tttcatgatt	aagtgtatgg	9600
actctggcac	cagatctctg	gggttcaatt	ccagttcttc	agtagctctg	accttggacg	9660
aattacttaa	tatcagtgtg	cttcatctct	aaattaggga	tagtaatagt	gcttacttca	9720
gaggggtgctg	cgagcattca	atgagttaca	gagcctggca	tatgctctca	atgttagcta	9780
gtagtatata	tactatatga	gacctcagg	aaaagcccca	aatagtgcg	gttcccaact	9840
ctgctatgta	acagattttc	cttttcaggg	gcagcatatg	tggcagactg	taattttacga	9900
agatggcaag	aacaatgtct	cctgatccat	gtgcttttct	agaacctcat	actcccccat	9960
caagaggtag	agtctaatac	tctgcccctt	gagtctgggg	gacttgcggc	ttgcttggaa	10020
ccgatttttg	atggctataa	tcctgccatg	taacattcac	agctgggttt	ttaaaagcca	10080
cgtgtgtgct	tctgcctcct	tagtgagaac	cctgggccaa	caaacaagat	gtttctctgg	10140
cctgaggcca	tgtgatgagg	ccacatgaac	tttttccagc	tcatagccct	agctgaggtc	10200
ccagccaaca	gccagcatcc	accgcgagat	gaatgagaga	ggacactcca	cgcccccgag	10260
ccatgggtgcc	acccctgctc	tcgagtcctc	ctagctgagg	cccagacat	tgtggagcag	10320
acaagctgcc	tctgcctccc	ccgtccccca	ccatgctctt	tccagattca	tgaccacag	10380
aattagaaga	aattttaaat	ggtgattatt	ttacaccact	gactttgggg	tggtttgta	10440
cacacagtc	cgcagcaact	gtgacagcat	acaagattta	acagagttag	cagacgcatt	10500
cgcgcgcagc	ctgaacagcg	tgctgaaggc	tcccaccctt	tccaaaatga	tgggtctcac	10560
atctgcctca	aagaacgtgt	aacccttgca	aatccttccc	taaagtctct	ttgcttggca	10620
atccttctgc	ttggccaggc	atggtggctc	gtgcctgtaa	tcccagcact	ttgagaggct	10680
gagggcggtg	gatcatttga	ggtcaggagt	tcaagaccag	cctggccaac	acgggggaaac	10740
cctgtctcta	ctaaaataca	aaaattagcc	gggcgtagtg	gtgggcacct	gtaatcccag	10800
ctattcagga	ggttgaagca	ggagaactag	gtgaactagg	gaggtagagg	ttgcagttag	10860
ccgagatcgc	gcctgcact	ccagctggga	aacagagtga	gactgtctca	aaagtgaata	10920

caaaactcct	gtttccttgt	ctgacccttg	tctgtataac	acacctttgt	gtccccagta	10980
aagcagagtt	gtggcagaca	tcattagggg	cctataatth	ctacctcaaa	gaagccacca	11040
gatctgtccc	ttttagtggg	tagactgaac	aggactgact	tggctaaggg	caaaaccctt	11100
ctttccacct	ccttccacac	tcagaattgt	ttggcagcct	ctcttttagga	ggcaggtaat	11160
aaacagtaaa	ccttacatag	tgctcagtgt	gtggtggctc	tggtgcaagt	gccttgtgtt	11220
tagtcgggaa	gacggctctg	tgaggtgggt	gttatcatca	tcccttttat	atagaggaga	11280
aaatacgcac	atagaggtta	actaacttgt	gaagtaaggc	tgaatttgtg	gcggagccaa	11340
gattggggcc	cagggccagg	cgtgggtggc	catgctgtg	gtctcagcac	ttgggaggct	11400
gaggcgggag	gatcgcttga	gcccaggagt	tgaagatcag	cctgggcaac	atagggagag	11460
ctcatctcta	caaaaagttt	agaaatttag	caggcgtggc	ggtgtgcacc	tggagtccca	11520
gctagccagg	aggctgagtt	gggaggatca	cctgagccca	ggaggttgag	gctgcagtga	11580
gccatgatag	tgccacactg	cactccagcc	tgggccacag	aatgagacct	tgtctcaaaa	11640
aaaagataga	aatgcagaac	atggggctcc	acccacgaa	gagccatttt	caggattcta	11700
ccgaatcaga	atctacattt	tttcaaaatc	tcgggggtgg	tgggtgggag	gggggagtgt	11760
taacagggtta	gtttgagaag	ctctgacctt	tcttaacctc	tacacctgct	gcgcagcaca	11820
cagaggcacc	cccaccagaa	accttttgaa	gactgggggt	caaagcaaat	tcaccactgg	11880
tgctgagagg	taacatctgg	tttctctcag	tacaaacagc	acgcactgct	ggccaggggg	11940
tagtggcttc	tgctgtaat	cccagcactt	tgggaagctg	aggtgggagc	agcatcactt	12000
gagccctgga	gttttgagac	cagcctagac	aacatgggtg	gaccttgtct	ctacaaaaaa	12060
tacaaaaaat	tagtggggcg	tgggtggcaca	tgcccgtaga	accagcgact	cgggaggctg	12120
agacaggagg	aaccacctga	attcggggag	ttcaaagttg	cagtgaagcag	tgattgaatc	12180
actgcactcc	agcctgggca	agagcaagac	ccagtctaaa	aaaaaaccac	cactgctcca	12240
ggggtccagg	ggtcaggcac	actcaatggt	agtaattgct	gccactatth	tttttttttt	12300
ttgagacagg	gttttgcttt	atcaccgagg	ctggagtaca	gtggtgtggt	catgggtcac	12360
tgcaacctcc	atctcctggg	cttaagcgat	cctcccacct	cagcttgcca	cctagctggg	12420
atcatagggt	tgccacctg	cgcccagcta	atthttatth	ttttagagag	tgggggtctc	12480
actatggtgc	ccaggctggt	ctcagactcc	tgggctcaag	cagtccctcc	acctcgccct	12540
tccaaagtgc	tgggcttacg	gtgtgagtag	gcgcacccag	ccttgctgcc	actggtgtag	12600
gtatttacta	tgtgccaggc	actgctctat	cttcccttgc	tgaatcccca	aagttagctc	12660
aaggacacag	gtgctattat	ttcccattht	acaaatgaga	aaactgagaa	cacagatagt	12720
aaataattht	cccaaagtct	aacagctagt	aagcaaggag	ggctggattt	gaaaccaaac	12780
tcaccactcc	acagctthtt	ggaaggtaag	cggaaagggg	ctgagtggat	tccttcttga	12840
tcattactgt	ttgaaacatc	gtgggcccct	tgacacttag	cctctgacct	cttgctgttc	12900
tctctccatt	ccagcagtgt	ccatccctca	caggcgagag	cagggtgaaa	gatcccccct	12960
gaacagtgcc	tttgacaagc	cttaaagaaa	aatcccgcta	cgtgcggcta	ctcgggcttc	13020
tcttaaatgt	acagggaggg	caggaggggt	gcgtgggggc	tgatctagcg	aagtactcac	13080
atctaggcag	agtttaaaaa	gttggttagca	gggcacgggt	gctcctgcct	ataatcccag	13140
caccttgagg	ggtcgaggca	cgaggattgc	ttgagtccag	gtgtttgaca	tcagcctggg	13200
catcatagca	agaccacatc	tctaaacaaa	atthtaaaat	acggtggctc	acgcctgtaa	13260
tcccagcact	ttgggaggcc	gaggtgggct	gatcacaaag	tcaggagatc	aagaccatcc	13320
tgaccaacat	ggtgaaaacc	cgtctctact	aaaaatacaa	aaaaataagc	caggagtgggt	13380
ggcgggcacc	tgtagtccca	gctactctgg	aggctgaggt	gggagaatgg	tgtgaacccg	13440
ggaggtggag	cttgcaatga	gccaagacca	cgccactgca	ctccagcctg	ggtgacagag	13500
cgagactctg	tctcaaaaaa	aagaaaaata	aattaaaagt	tgggtgattta	atgaaaattg	13560
tctccttcac	tgacattagc	cgagaggtea	gaggtcacac	tgtagacacc	agctgtcgag	13620
gcacaggcgc	tgctcgctcc	tcttaggcaa	ctcttaggac	tttaacactc	cagggaatcc	13680
atcatgaagt	caaaccgctg	cagggaacag	tcacactggc	cccaggccac	acaacaatat	13740
cactggcagg	ttttatcttc	tctgagtaag	taagataaag	tgaaaagcct	agtttaagga	13800
gccggcttag	cttggtcaaa	atccctgggc	ctggcttaga	gcaagtagag	acagggtgtg	13860
gaaaggaaat	aatcagagcc	aagctgagcc	catattaaa	gtttaatctt	ctagaaagtt	13920
tagtatgaat	tatttgacat	acaaaaagcc	ataaagaatg	tcacgcacag	cttgccagga	13980
gcaaaaaaaa	aaaaaaagca	gaaagaaaac	aagaaaaagc	acgtttacagt	gaacgtccat	14040
gtacccattg	cccaattgga	gagtgaaagc	taatccataa	tattaaagcc	cctggtgtgt	14100
cctccctgcc	tgctcctctt	aaatctttct	gccaatgggg	ataatggctc	catgtggccg	14220
tagtcttttt	ttttaaagaa	agaaagagca	tcagctctgat	gtagctttta	ttgagtaaa	14280
aggtgagact	aagaatctgg	atgatacaga	ggttccagtt	gatcagagt	cgcaaacacc	14340
gaaaaaggga	attcagccgc	aaccgcacca	gcacacgggg	cacgcgggaag	ccactgccgc	14400

aaggagatgg	ttcccactct	cacgcacatg	agcagctcct	ggtcagtcct	aagaggcaag	14460
ggcagagggc	atggtggctc	tcacagagct	actttacaaa	taaactgtgt	gtcttcctca	14520
ggagtctctt	acaacacttt	taaaaaactg	aacagaaaat	agggcaagg	gccaggtggc	14580
agtgccatga	ggcacatgga	atgtcctggg	ctgtggaatc	gtggaggggtg	acaggagcag	14640
catgatcagg	cattgtatga	cgaggatgac	acggtgccac	catggcctgt	ccagttggtg	14700
tggataaaact	gccctggttt	ggccaagagt	tcataggtgt	gagccccgaa	gtaatcccg	14760
tgagcctagg	aaacgagaga	gtaggttggg	caggacagtc	catggcgcac	gcccccgagg	14820
ggccagccag	gttaatccct	gctccacagg	cttacctgga	tgaggctggc	tggaagcatc	14880
tcatgtctgt	acccgtcata	gaaggagagg	gcagtggtaa	aacaggggcat	gggaatgcc	14940
gcttggaacc	cagtgtgac	tgcccgccg	caggagtcct	gagcacaata	cgacggcca	15000
gagattagtg	atctgcccc	ggtgacgcg	atagattttc	attcatatca	atgtgggtaa	15060
atgaaaaact	gatggttagg	ccaggcgcg	tggctcacgc	ctgtcatccc	agcactttgg	15120
aaggctgagg	tggcggtatc	acgaggtcag	gagttcaaga	ccagtctagc	caacatggtg	15180
aaacccccatc	tctactaaaa	atacaaaaaa	aaaaaaaaaa	ttagccagggt	atgttggcac	15240
acctgtagtc	ccagctactt	aggaaggctg	gggcaggaga	atcgcttgaa	cccaggaggc	15300
ggaggttgca	gtgagccaag	atcatgccac	tgtactccag	cctgggtgac	agagcgagac	15360
tctgtctcaa	aaaaacaaaa	aaccacaaaa	aaaaacaaaa	aaaccaaaca	tcacaactga	15420
tggccccagg	gaggttagagt	aaccatggca	ccagccctag	gctacatacc	tggcagtttt	15480
caacagctga	cttaagaag	tcgtccagta	ggaggttctg	aagttccggg	tttcgatcaa	15540
atgcatcctt	tatctttcct	aggaatacac	tgaataatc	aaggggggaa	aaaagcaatg	15600
agtctttttt	ttttttttt	tgagacggag	tcccgtttt	tcaccagggt	ggagtggagt	15660
ggcacgatct	cagctcacag	caacctccac	ctcccagggt	caagcgattc	tcctgcctca	15720
gcctcgccag	tagctgggat	tacaggcacg	caccactaca	accggcta	ttttgtattt	15780
ttagtagaga	cagggtttca	ccgtgttagc	caggatggtc	tggatctcct	gacctcgga	15840
tcgcctgccc	tcggcctccc	aaaacgctgg	gattacagggt	gtgagccacc	gcgcccggcc	15900
aaatgcaatg	aatcttaact	ctaacaggga	agtaagctgg	aagccgatgt	ataccctagt	15960
gaaacaaagt	tacatttctc	atttcttcaa	gctgttaacc	cttttcctgt	ttagaaaaaa	16020
agtgacgtct	gctgcccagc	ctcattta	ttacataaaa	cacgcttttt	gaggctgaag	16080
aaaactctgac	gattttcaat	atgaaaataa	aatataaaaa	ctattcttgg	cgttatttct	16140
aaagagaact	aatattagaa	tcattctga	caccagaatc	atctacttca	gaaaaatcag	16200
attcatcaaa	tgaatcttca	gccaacatga	gaacgatgta	acgtcatgtg	tagaaatgct	16260
acgtttttcta	tgatttggca	ttttcaatga	aaatacacag	caaaattccc	aagaggcaag	16320
gccagagggc	acgatagttc	acagaagtac	tttaaaaagg	gtagtgtagt	aggtgtaatg	16380
cggagccggg	cagagtggct	cacgcctgta	atcccagcac	tttgggaggc	tgaggcgagg	16440
agatcaccca	aggcaaggag	ttcgagacca	gcctggctaa	catggtgaaa	ccctgtttcc	16500
actacaaata	caaaaagaat	agccggacat	ggtggcggtc	ccttgtaatc	ccagttactt	16560
aggacgctga	ggcaggagaa	tcacttgaa	ccgggaggca	gaggttgag	tgagtcaaga	16620
tcgcatcatg	gcactccagt	ttgggcaata	agagcgaaac	ttggtctcaa	aagaaaaaaa	16680
aagggtgtagt	gtggacaatc	tagttacagc	aactgaggtg	cagtgaagaa	gggaaccaca	16740
taatctaagc	ctatcttgtg	ccagtgtcca	gtgatggggc	taagtgccca	tccttgga	16800
ctgctcaagc	taagtgtcct	aagatcgcac	ttctgcacag	ccgtgtgagt	ccttcccgtc	16860
ggaccctggg	ctgcctctca	cttaccttct	aatgatgcag	ccccctctcc	acatcagggc	16920
gatgccacca	taattgagag	tccagccaaa	ctcggtggct	gcctgcctta	gcagcataaa	16980
gccttgagcg	taagagatga	tcttggaagc	gtagagtgcc	taaagagtga	cacagagacc	17040
tactaggatt	gccattagga	gagtgaccgc	cttatgtcta	ccagtcttat	tctcatcagc	17100
agtggagatc	ccagaagggc	caatattcta	ggaaaacatt	gtaagtcaag	atccaaagtc	17160
aggctgaact	tcattccacc	tgccatcctg	tggcctcgag	tggtctccca	ccacaacccc	17220
cacccccact	gccttccgca	ggaccaacaa	agaccactgc	cagggactgt	gtcccacctt	17280
ccgaatgtcc	tccaggaatg	atttcttctc	accatcaaac	tggaaacttct	ggggacccct	17340
cagctttttg	ctagcttgaa	ttctctcatc	cttcagagat	gataagcacc	gagcaaaagc	17400
agcttctcct	acatggggag	atcggaagaa	ggaaacagat	tactgtcagg	cctctgagcc	17460
caagctaaac	tatcatatcc	cctgtgacct	gcatgtatac	atccagatgg	cctgaagcaa	17520
gtgaagaatc	acaaaagaag	tgaataatgg	tggttcctgc	ctttactgat	gacattccac	17580
cattgtgatt	tgttcctgcc	ccaccttaac	tgagcgatta	accttgtgac	attcctctc	17640
ctggctcaga	acctcccca	ctgagcacct	tgtgacccct	cggccctgcc	cgtaagagaa	17700
aaacccccct	tgactgta	tttccactac	ctgcacaaat	cctataaaa	ggccccaccc	17760
ctatctccct	tcgctgactc	ttcggactca	acctgcctgc	acccagggtg	ttaaaaagct	17820
ttattgtctca	cacaaagcct	gtttggtggg	cttttcacac	ggatgcgcac	gaaaattacc	17880

aaagttcgca	cagcaaccag	aagaaagggtg	gagcaggaaa	gtctgtttat	acaaagagct	17940
gaaagtttca	accttaggcc	acaaaagggtg	acatggatcg	gaaggaactt	ttataagaag	18000
ctctaaacag	ttaatttgat	aactaaaact	cttaagacaa	tcttccaata	caaacatgag	18060
tattcaatca	caaagattaa	catgaaattc	aaaagggagt	tttgagggaa	aatgaagaga	18120
tagaaaccac	tgttatggct	gggcaagggtg	gctaaccacct	gtaatcccag	cactttggca	18180
ggctgagggtg	ggaggatcac	ttgagcccag	gagttcaagg	ctacagttag	ccatgatcac	18240
accactgctc	tccagcctgg	gcaacacagt	gagaccctgt	ctctaaaacc	agtaaaataa	18300
aataaaaaacc	actgttatgt	agaatactca	gtgttggtcc	atgagtaaaa	tttcaaattc	18360
aatttagagg	accttaattt	ttttttttga	agattttaca	ttgataagtc	acattttacgg	18420
actcacctct	caaaaaaatg	ttagggtttt	atattttacg	gttttcagta	tagccgtaat	18480
cattcaagtt	taaccacttt	acttcatttg	aattaaaaag	tcaatgtagt	attttaatat	18540
taagacattt	agtattttca	gaaagtattc	cttataaaaag	acttgctcaa	ctgacaactt	18600
atagttagaa	ttaatgactc	tttaaccact	ttttccccc	tagacaaaat	gaagtaaaat	18660
ctcaggggaa	taacagagga	ctttattttct	gaggaaagag	gagcagctat	ggcttgagac	18720
tgctaaccct	actccaaaca	cacaaaagca	gctacctctc	tcctggccca	aatgcacaca	18780
caggatgact	tagcatttct	agaaggaagc	tttgttaagt	gactggtgca	acaggctatg	18840
aggcaaaccc	ttcctgttag	agggggagag	ggcagctgga	agacttccct	gttagttcac	18900
aaataatgat	ggctcccagc	aggggggtggg	cccagccacc	ctgggggaag	aggtatatgg	18960
atccacagga	ggagagtagg	attctgagat	cctaatactt	acacatatac	ttgagtccgt	19020
gatgaataaa	ttgtctctag	ctattggccc	ctccctcctc	acctatgtta	tggctcagat	19080
cggtctaaaag	cagccaactt	ccttctatac	agcacgggaa	tgtagaaacc	accgactttc	19140
ctcctttactc	tgcccttacac	cacacagttc	aatagggcga	ggcacaatga	acagggaggt	19200
caaaaagggga	gaagagtcaa	gggagagaaa	ggcaacctgt	atccagagga	gcaaacagga	19260
aaaattctgt	tttattattt	ttgagatgct	tctttttttt	tttttagggc	gagtccttgc	19320
cggtcgccca	gcctggagtg	cagtgggtgcg	atctcagccc	actgcaaatt	ccgcctcca	19380
ggttcaagtg	attctcctgc	ctcagcctcc	tgagttagctg	ggattacagg	cacgggtcac	19440
tatgcctggc	taactttcgt	attttttagta	gagatgggg	ttcgccatgt	tggtcaggct	19500
ggactcaaac	tcctgacctc	gtgatccgcc	cacctcggtc	acccaaagtg	ctgggattac	19560
aggcgtgagc	caccgcgcct	ggcccaattc	tgttttaata	tagtgagaac	aatctgccag	19620
aagcaaagat	cagcctctca	ttaaccacga	gaggcatcct	tcgttctcct	ttttcattcc	19680
tgccagaagt	ctatgtattt	tactcttaga	accacctttg	ctgggcatgg	tggctcacgc	19740
ctgcaatccc	agcacttttg	gaagccgagg	cgggcagatc	ccctgagggt	aggagtccga	19800
gaccagcctg	accaatatgg	taaaaccccg	tctccactaa	taacacacaa	aaattagcca	19860
ggcatggtag	gcctgcctg	taatccagc	tactcgagg	gctgaggcag	gagaatcact	19920
tgaacccggg	agggtggagg	tgcagtgacc	cgagatcatg	ccactgaact	ccagcctggg	19980
tgacagagca	caacaccgtc	tcaaaaaaca	aacaaacaca	ctgaaaacca	cccccccggc	20040
caagattttg	atattgttaa	tcccctctcg	ttttatgttt	atttctttat	attatttctc	20100
tatctttctg	agtttgatgc	ttagctcact	aatgtaagat	ataaaacaag	tgggcaggat	20160
acacaccaac	ttcaggatag	tggcttttct	ctaaaagagg	aaggagaagg	aacttagcaa	20220
aacaacgagg	actcaaatgg	ataggtaatt	tttatctttt	taatatctag	gggaaaaaag	20280
taaattttta	ataattttctg	agtacacaag	catatgttat	tcgcaaactt	tttttggagg	20340
ggatggagtc	tcattctgtt	gcccaggctg	gagtgacagt	gcatgatctt	ggctcactgc	20400
aacctctgcc	tcctgggttc	aagcgattct	catggctcaa	cctcctgagt	agctgggatt	20460
acaggcacct	gctaattttt	tttttttttt	gagacgaagt	ctcgctctgt	caccaggtct	20520
ggagtgcagt	ggtgccatct	cagctcactg	caaacctctg	ctcccagggt	caagcaattc	20580
tcctgcctca	gcctcctgag	tggctgggac	tacaggcacg	tgccaccaca	cctggctaata	20640
tttttgtatt	tttagtagaa	acagggtttc	atcatgttag	ccaggatggg	ctcaatctcc	20700
tgacctcatg	atccaccgcg	ctcggcctcc	caaagtgtg	gcattacagg	cgtgaaccac	20760
tgtgcccggc	cctgttattc	atgaactttt	ctatgaaaaa	ttttactcaa	gttacctgcc	20820
tcataaataa	aatcttagat	cactgactac	aattacatca	ctaagtctaa	aatattccaa	20880
agataaaaact	ggataggaag	gacagtcact	tctgaattta	cctcacagtt	tgtacgaatg	20940
agataaagaac	tacaaggaag	agaatcaaaa	gcagcgtcag	cctctctcac	actgtcagtt	21000
tcttcaacgc	aagaaagagc	aaaaggcact	ctgaaagcta	aagagggctg	aagagattct	21060
ctaaagacca	gtctgtatct	gtcctccaga	catcaagatc	agaatagtg	acgaaagggc	21120
ccatgtgaaa	agcataacat	taccaatgag	ggtgacgggt	acgccgtatt	ccagggcgga	21180
gatggcggtc	cacttccctg	tgcccttctg	ccccgcgctg	tcctgatct	ttggcagcag	21240
gtgttttgcca	tcggtgtctt	ggaacttgag	aatattggct	gtgatttcaa	tcaggaaatga	21300
gtctagctct	gtcttattcc	aatcctcaaa	ggcctacatg	cagaacacag	gagagaacca	21360

tgtagagga	atgagggctg	agcaaggaag	cccttgtcc	aatgtccacg	ctgaccaatg	21420
ctcacgggtg	ccagcaggct	ctgctcgcgt	ctgcctgggg	acttctgctc	ctgctggttg	21480
agttttatgc	taaccagag	tcagttgtgt	ttgttctgaa	cctgggtata	ctgaatttct	21540
ggccaccaga	agtgtgtct	cctcagaggc	aagggtcct	cacttcactt	aggtctctgt	21600
gcagtgtcgc	ctcctcagaa	gccttctgca	atcacggat	cttgtccag	tttactcttc	21660
gttctcacag	tcctcgctaa	ctagtttgat	attgtatatt	tatttctgtc	tgtcttccca	21720
gctccgggag	ggcaggcact	ttgctttctt	cactagtata	tccccagcat	ttagaatcat	21780
gcttggcata	tagtaaagca	ctcgtgtgtt	tgctgagtga	acacgttaag	tattatatat	21840
accaataaaa	aatgaacaca	aaaagaatag	cactgtttct	gtgaaagaaa	actaaggtaa	21900
tgtttttagaa	agaacaatta	acagcaatcc	agtgaacaaa	acaatagtca	aagtaagtga	21960
ggatgacatg	aataaaaaac	taggaggaaa	acaacaaaaa	atctggaaag	ctatactgta	22020
tgcttggcta	gagttctgta	atcacatccc	attggaaata	actgaaacta	gaaattctag	22080
a						22081

<210> 77

<211> 22081

<212> DNA

<213> Homo sapiens

<400> 77

tctagaaact	atcctttaac	ttctgctaca	gttaaggctt	gtgaggctct	tcatttcccc	60
tctgaagtca	agcaaatacc	aatgctacaa	gctcagctgt	caaagaaact	atgggtgata	120
taaaaacgtt	ataaagcact	gaaataaaga	atttaatgtc	taatgttcta	gccatcaggg	180
cagtttaaaa	caataaaata	aaggcggtta	tgccccagtg	ttagtgtaat	aggaaaaaaa	240
tagttcttcc	cataaaatat	ccacatctca	cagccaagaa	gagaagtgtt	tcacgaagaa	300
cgcattgagga	tgataatatt	cttggctctgc	tggtcagact	cgccacagct	cccaccacag	360
cactgctccc	aggtgaaatc	aacctttggg	gtttacagac	atggctgggg	aggccgaagc	420
ttcataccac	actgtcggaa	agtcagctcc	gaaatggccg	caatggctctg	tttgcagaac	480
tgcatctctt	tgtccaatgc	aacttcctcg	caaagacaac	ccacagtata	gtgaactgct	540
gccttttagcc	tctggggaaa	aacatcaaaa	tatttcacgg	gtaaggctgc	aaataagagc	600
ttttcacgcc	ttaaaaaatg	aagaccaagg	agagggctctg	ctcagcccaa	tccctctggc	660
gctttccata	atggctgagt	ggcttttcaa	gtgtactaat	aagttaatga	gaccactgg	720
agtgcgactt	gtggaaacat	tacttccttg	ttaatggtta	tgatttatgt	caggtaaaga	780
taagaaatta	gatggcaagt	cagtggggag	acaggtcaga	ctgatgcctg	ccaaggccct	840
gagtggtttc	actcacttat	tccaaactat	ctgcagagct	ccaactcagt	aagggcata	900
gctaggtgtt	tgggaaacaa	tgaaaaaccg	ggcaggggaa	tttgccctta	aggcagttaa	960
tcaacaatac	agaaggatcc	catccctctg	ctgcaagccc	ctggcagccc	caggcctgca	1020
cgtccacagag	gacagaagta	caacacggga	aaggctcaag	agggcacacc	caccctctc	1080
gattttggagg	gttgggaggc	cacctccacg	gggcccctac	tgctccttgg	caaacctttt	1140
caatactgaa	aaagatctct	ccaccctctg	cagaaaatta	ccgagagggg	aggatgagcc	1200
tcaattgcaa	gacaagctaa	gcaatggctc	cagccacgtg	tcgacagagt	tctgttgagc	1260
ccacctgtgg	gtactccgcc	tcggggccga	agacacagct	gagctgcacg	tgatgacagc	1320
tgaaccacaca	agggcataaa	atctaccagc	aagtgttcaa	cgcattaggca	agaggaggag	1380
gaactgccaa	aaccacagtc	caggaaactca	ggatagaggc	cagacagatg	aggaggcat	1440
ctactttcct	gaatttcaga	cctcacaaga	ctaggtaagc	tgaaggcctc	tggtaggaga	1500
agccaaagag	gcatcaacct	gggaggcacg	aagatcacag	gtgtgatcac	tgcacactac	1560
agcctcgaac	tcctgggctc	aagtgaacct	cctgcctcag	cctcttgagt	agctgggact	1620
acaggcccac	aacaccctgc	cgggctcaag	gtcatctttt	ttaggtatgg	gtgggggtca	1680
gggtacagga	catgaattct	tctgaatgct	cttgggtcca	ggaatttttc	tcagatcttc	1740
ctcctcctcc	tcctccctcc	cccctggctg	ggctggggta	tcactgcact	tagaggctaa	1800
atcactaaac	tcctcaaggg	caggaccctg	tcaattttgt	tcactgctgc	ctaccaagtg	1860
cctagaacag	ttggttacat	gaatgggggg	aaatcgtcta	caagctaata	acagctgagg	1920
ggcaaatttc	tcagcccatc	tttgagctt	catcagtaag	catttgttgg	tctatttgag	1980
agccaggctc	tgttctaggg	actaagaaca	ggccggggcac	agtgggtcac	acctgtaata	2040
tcagcatttt	aggaggccaa	ggcggggccag	atcacttgag	gtcaggagtt	caaaaccagc	2100
ctgggccaaca	tggtgaaact	gtctctacta	aacatacaaa	attagctggg	cgtggtggca	2160
ggggcctgta	atcccagctg	ctcaggaggc	tgaggcagga	gaatctcctg	aacctggggg	2220

gtggagggtg	cagtggaggc	agatggagcc	actgcactcc	agcctggaca	acaagagtga	2280
aactacgttt	caaaaaaac	aaaaaccaac	caaaaaaaaa	cagggtaggc	aggaccaaag	2340
atgactaaat	gcaatgcacc	atccttaact	gaatcctgga	tgaaggaaaa	aagacagtta	2400
aaagaaacat	ctttaggaca	agtgggggca	cttgacaatg	cacattcaat	agagttttat	2460
caaaaattaat	tgtcccactt	cctgagtgga	acaattttat	gaaatgatgt	agtaggagaa	2520
tgcctttttt	ttttttttt	ctgagatgga	gtctcgctct	gtcaccagg	ctggagtgc	2580
atgggtgcgat	ctcggtcac	tgcaacctcc	gcctcccggg	ttcaagcgat	tcccctgcct	2640
caacgtccc	agtagctggg	attacaggca	cctgccacca	cactcggcta	atttttgtac	2700
tttttagttga	gagggggtt	ccatgttggc	cagtctggtc	tcgaactcct	gacctcaagt	2760
gatctgcccc	cctcggcctc	ccaaagtgtc	ggaattacag	gcgtgagcca	ccgcgcccag	2820
ccaatgcctt	gtttttggga	gatgtgtact	aaagaattaa	aatgtaaagg	cgaagtgtca	2880
aaatatctgc	aattaattct	ccaatcgcg	ggctgggagg	gaagcatggg	agcaaacaga	2940
gcaaatgtct	aactagtgtt	gaatcaaggt	gacgggcatc	tgggcattct	gtaccgtgtt	3000
cttgcaactt	ttctgaagg	ttgaacttct	caaaagacaa	ggggcagggt	agacagctgc	3060
tgcaagttaa	ctttgtagag	aggaaactcc	cgcgtctgga	gctcattccc	gcgtttcttc	3120
agtcgctcct	ctttaagggtc	gccactccgg	gtcttgcttt	taagcctctt	cacggcaacg	3180
ttctcagcct	ctgacgcccc	atatgcccgg	cgctgatgaa	aggaacgaa	gggatgccc	3240
cagctaccct	gacaagtgat	tattcttatg	acgattttgc	agagaagaaa	attgctctg	3300
ggccgagtcg	atagcatcac	aagttggcgg	ggcagagatt	cgaaccaca	tctaaggacg	3360
agctctgggg	ctgactgggtc	cgcaccgct	ccctgcatca	gtaacgaggg	gtcgacgct	3420
ccaggggccag	cgttccagag	ctccggcccc	aaccgcccac	cgcgtacggg	cgtcacctgg	3480
aatgtcta	gccgagcttg	taccctcacg	aaaaccccat	ctgagaagg	gaaaccgagg	3540
attcatcgca	agggcagaag	gtggcctctc	ccgcgcggac	cccggcggcc	gcacgctccc	3600
ctagaaccgc	ttctcccca	gccagcgcag	gccagggtcc	agccgcgttg	ccgcggaaac	3660
cgctcccgag	caccaccgc	ggcagttaag	ccaacgcag	cgcagccgcg	gggggcgccc	3720
ggggggcggg	tgccgatgag	aagccgcgg	gggctgcgg	gtacttttct	gtccagaaac	3780
tcgacgcgct	cctgccccag	cccagcccga	ccccgcttt	cctgtacctg	ttggtaagag	3840
aatcgctgct	gctcctcggt	ctccgcctcc	tctccatca	ctgcgggccc	accctgggca	3900
aacgcaggag	ggccgagaag	gggcgggtgt	gcgcggccag	gtcggatttt	ccgcgcggg	3960
cgcgagcgac	gggcccgcg	ggcggaacaa	gtacgcagct	ccgccctgcc	tcgcgcgccc	4020
cctggcggg	ctccgttgag	gggattccgc	cgctggcctc	cagccagccc	cctgctcagc	4080
ttgctctg	gaggtggccg	ggcgacgcgg	ggacatgacc	accgagggtc	ctgctgcacc	4140
ccagagcctg	attcagcgcc	tggcacaacg	ctgagcacca	ctctccgcca	aacacgtgtg	4200
cgcataggtg	caaagcgtgt	tccagtcggg	tgtagaggat	gcgtagccca	cgatttacag	4260
atcatgtaac	gcagtacaca	ttatcaggag	ctccatgcac	ctgtacctca	gggtgatctc	4320
gcaaatcgca	ccatcaactt	tatcattcta	tcaccaacaa	tagcgtcaca	aagactacaa	4380
tgagtgaacg	accctgagcc	tcattcagcg	agtggaaacg	gaactgcgtt	gttgccattg	4440
gcaggagtat	agttctgaca	caagtgttac	tgtttttcct	ttatgttaac	gatgaagtga	4500
gaccatcaaa	cccaattttg	gtttgttttt	attgtagttt	tttgagaggc	agggctctac	4560
tctgcgcgcc	aggctggagt	gcagtggcac	caccaagact	cactgtaacc	tccacctcct	4620
gggctcaggt	gatctcccca	cttcagcctc	ccaagtagct	gggaccacaa	gcctgcac	4680
gcgcacctgg	ctaattttta	ttttttgtag	agaccaggtc	tcactatgtt	gcccaggctg	4740
gtatcaaa	cctggcttca	aacaatcatc	ccacctcagc	ctcccaaagt	gctggaatta	4800
caggtgtgag	ccaccatgcc	ctgcctgtat	ttctagggtt	ttgttttatt	attttttatt	4860
gcctataatt	ctgtattctg	catttgcac	aagcagggtg	tactttcaga	acgaaggaaa	4920
gcacataaag	ccactccttg	tcttcctttc	ccaggacgt	ccctcaagtt	ccctaagctg	4980
gccaggggct	gaaacccaga	tcaaagcttt	ttggaggaat	cagccttctg	aggactttcc	5040
tctgcatctg	ctcagtgggt	ggcatctgga	aatgacaggc	acttctcgcc	tctgtccact	5100
gctctctgtg	ggcatcccag	tctacctgga	cagtcctcct	gcccagagc	ggcaagcctc	5160
tgacggattc	ccctaattgg	cagcatgggg	ctgggcaggg	caggccatcc	agagtgcagc	5220
caagcctgca	gcaggagaga	aggccggctg	ctgggttggtg	agcagcccca	tttagagcac	5280
actgtggctg	caaaagcccag	ctccctccct	tgagcctgg	gaccccaagc	aagtacag	5340
acgtggccaa	gcttcatgtc	ccttattttat	caactgggga	cagtagttcc	aacttcacag	5400
ggcagggtgtc	aggtttttaa	caattgcctc	acataagagc	taaagaaatt	gtaacaattc	5460
gtcccaggaa	gttctctgtg	tttgtagctg	tgtgttcctt	catttttaaag	cagttgcttc	5520
ccaggattaa	agaacagtat	tccagtgcac	tgtgtgcaat	acagaggcac	ttaagagcct	5580
cagaggctag	gagcagtggc	tcatacctg	aattcctgca	ctttgggagg	ccgaggcagg	5640
tagatcactt	gaggtgagga	gttcaagacc	agcctggcca	acatgatgaa	accctgtctc	5700

taccaaaaaa	tacaaaaaatt	agccagacat	ggtggcacat	gcttgaatc	ctagcacttg	5760
ggaggctaag	gcaggaggat	tgcttgaacc	cgggaggtga	aggttgcagt	gagctgagat	5820
cgcaccatag	cactccagcc	tgggcaacag	agcgagactc	tgtctcaaaa	aaaaaggtct	5880
gagaaatagg	tcgaggggtg	aggtattcat	tacagaaaaat	ggaactgggt	gtgggtgggtc	5940
aagcctgtaa	tcccaacact	tagggagacc	aaggcaggag	gatcacttga	gcccagttca	6000
aggctatggt	gagccgtgat	tgccccactg	ttttccagcc	agggtgacag	agggagacac	6060
tgtctctaaa	aaaaataatg	aaaaaaggat	atattaatat	ttggttgaaa	cttacttgat	6120
gaagaagtag	ccctataatc	tggccactag	atgtcagtg	tgactacag	cgtgaagcaa	6180
ggccagggat	gcccgcctggc	aatgttgcca	tgacactgag	cactttgcac	ttgtcctcgc	6240
tctaggcact	catttaatat	ctcatctgcc	ctcaaaaagta	ggtgctgtta	gccccatttt	6300
acatgaggaa	acaggtgaaa	gaactctgcc	caaggctaaa	ctactgggaa	gtgatagaga	6360
ccagatttga	ttattagget	ggtttccgag	tttccggttt	atccactgcc	ctcaccataa	6420
ataagacaaa	gaccttgggtg	ggtttcttta	atccttttca	tctgcattaa	ggaggggtcc	6480
ataaatat	agttcagccg	ggcgtgggtg	ctcacgccta	taatcccagc	actttgggag	6540
gccgaggcag	gcggatcacc	tgaggtcagg	agttcgagac	cagcctcaac	atggagaaac	6600
cctgtctcta	ctaaaaatac	aaaattagcc	agggcgtagt	gtgcatgct	gtaatcccag	6660
ctactcggtg	ggctgaggca	ggagaatcgc	ttgaacctgg	gaggcggagg	ttttgcggtg	6720
agctgagatc	gtgcattgca	ctccagcctg	ggcaaacaa	agcgaactt	gaaggggtg	6780
gttgcacctc	cacacctgtg	gggttttctc	gttaggtgga	acgagagact	tggaaaagaa	6840
aaagacacag	agacaaaagta	tagagaaaaga	aataaggggg	cccaggggac	cagcgttcag	6900
catatggagg	atcccgcggg	cctgaattcc	cttagtattt	attgatcatt	cttgggtggt	6960
tctcggagag	ggggatgtgg	caggatcata	ggataaatag	ggagagaagg	tcagcagata	7020
aacacttgaa	caaagggtctc	tgcaccatag	ataaggtaaa	gaattaaagt	ctgtgcttta	7080
gatattgtga	cacataaaca	tctcaatgcc	ttgaagagca	gtattgctgc	ccgcctgtcc	7140
cacctccagc	cctaaggcgg	ttttccccta	tctcagtaga	tggaaacatac	aatcgggttt	7200
tatactgaga	cattccattg	cccagggacg	ggcaggagac	agatgccttc	ctctcgtctc	7260
aactgcaaga	ggcggttcctt	cctctttttac	taatcctcct	cagcacagac	cctttacggg	7320
tgctgggctg	ggggacgggtc	aggtctttcc	ctcccacgag	gccatatttc	agactatcac	7380
atggggagaa	accttgggaca	atacctggct	ttcctaggca	gaggtccctg	cggccttccg	7440
cagtgtttct	gtccctgggt	acttgagatt	agtgaagagt	gacagcgtgc	tggcagtcct	7500
aaagccctcg	ctcgtctctg	gcacctcctc	tgcctgggct	cctactttgg	tggcacttga	7560
ggagcccttc	agcccaccgc	tgcactgtgg	gagccccctt	ctgggctggc	caaggccaga	7620
gccggctccc	tcagcttgca	gggaggtgtg	gagggagagg	cgcaagcggg	aaccagggct	7680
gcgcgcggcg	cttgcgggcc	agctggagtt	gtgggcttgg	cgggccccgc	cgggccccgc	7740
actcggagca	gccggctggc	cctgcccggc	cagggcaatg	aggggcttag	cacccaggcc	7800
agcggctgcg	gaggtgttac	tgggtcccc	agcagtcca	gcccaccggc	gctgcactcg	7860
atttctcact	gggccttagc	tgccttctctg	tggggcaggg	ctcgggacct	gcagcccgc	7920
atgctgagc	ctcccaccca	ctcgtggg	tctgtgtgtg	cccagacctc	cccgatgagc	7980
gtggccccct	gctccacggc	gcccagtcctc	atcgaccacc	caagggctgg	ggagtgtggg	8040
cgcactggcg	aggactggca	ggcagctcca	cctgcagcct	ggtgcaggat	ccactgggtg	8100
aagccagctg	ggctcctgag	tctgggtggg	aggaggagaa	cctttatgtc	tagctcaggg	8160
attataaata	caccaatcgg	cactctgtat	ctagctcaag	gtttgtaaat	acaccaatca	8220
gcaccctttg	tttagccag	ggtttgtgaa	tgcaccaatc	gacactctgt	atctagctac	8280
tctggtggg	ccttgagaa	cctttgtgtc	tagctcaggg	attgtaaacg	caccagtcag	8340
cgcctgtca	aaacagacca	ctgggctcta	ccaatcagca	ggacgtgggt	ggggccagat	8400
aagagaataa	aagcaggctg	cccaagccag	cagtggcaac	ccgcttgggt	tcccttcac	8460
gctgtggcag	ttttgttctt	tgcataaat	cttgttactg	ctcactcttt	gggtccacgc	8520
tgtttttatg	agctgtaaca	ctcaccgcga	agatctgcag	cttactcct	gagccagtga	8580
gaccacgagc	ccacgagaag	gaagaaactc	cgaacacatc	cgaacatcag	aaggaaacaa	8640
ctccagatgc	gccaccttaa	gagctgtaac	actcaccgcg	aaggtccgcg	gcttcattct	8700
tggagctagt	gagaccaaga	acccaccaat	tcgggacaca	ttagggagtg	gtgatgactc	8760
ttacagagca	tgctgccttc	aagcgtctgt	ttaacaaagc	acatcttgca	cagcccttaa	8820
tccatttaac	cctgagttga	cacagcacat	gtttcggaga	gcacaggggt	gggggttaagg	8880
ttacagatta	acagcatctc	aaggcagaag	aatttctctt	agtacaaaac	aaaatggagt	8940
ctcttatgtc	tacttctttc	tacacaaaca	cagtaacaat	ctgatctttc	ttttcccac	9000
aaaactccgt	ctcaaaaaaa	aaaaaaaact	gcactgtaaa	atgtcaatac	aaaaatcaat	9060
cttggctggg	cgtggtggct	catgcctgta	atccagcac	tttgggaggc	cgaggcgggt	9120
ggatcacccg	aggtcaggag	tttgtgacca	gcctggccaa	catggtgaaa	ccccatctct	9180

actaaaaata	caaaaattag	ccaggcatgg	tgggtgcacgc	ctgtaatctc	agctactaag	9240
gaggctgagg	caggagaatc	gcttgcccag	gaggcgagg	tcgtagtgag	ccaagatcat	9300
gccattgcac	tccagcctgg	gtgacagtga	gactacatct	caaaaaaaaa	aaaaaaaaatc	9360
aatctccatt	tcataggttt	attcaagaga	agataaaaa	ttaaaaataa	ttatcgtaa	9420
atattatatg	tatcctgtaa	gcacatgagg	tcaggacttt	ggacttctct	caccccagaca	9480
gagggtagct	agcacatgc	ttggcacatg	gtaggtgtac	cataaacatg	ccgaatgact	9540
gaatgagtgg	ggcgatgaac	tgtgcacgcc	gacaggtcag	tttcatgatt	aagtgtatgg	9600
actctggcac	cagatctctg	gggttcaatt	ccagttcttc	agtagctctg	accttggacg	9660
aattacttaa	tatcagtgtg	cttcatctct	aaattaggga	tagtaatagt	gcttacttca	9720
gaggggtgctg	cgagcattca	atgagttaca	gagcctggca	tatgctctca	atgtagcta	9780
gtagtatata	tactatatga	gacctcagg	aaaagcccca	aatagtgccg	gttcccaact	9840
ctgctatgta	acagattttc	cttttcaggg	gcagcatatg	tggcagactg	taatttacga	9900
agatggcaag	aacaatgtct	cctgatccat	gtgcttttct	agaacctcat	actcccccat	9960
caagaggtag	agtctaatac	tctgccccct	gagtcctggg	gacttgccgg	ttgcttggaa	10020
ccgatttttg	atggctataa	tcctgccatg	taacattcac	agctgggttt	ttaaaagcca	10080
cgtgtgtgct	tgtgcctcct	tagtgagaac	cctgggcca	caaacaagat	gtttctctgg	10140
cctgagggcca	tgtgatgagg	ccacatgaac	ttttccagc	tcatagccct	agctgaggtc	10200
ccagccaaca	gccagcatcc	accgcgagat	gaatgagaga	ggacactcca	cgcccccgag	10260
ccatggtgcc	acccctgctc	tcgagtcctc	ctagctgagg	cccagacat	tgtggagcag	10320
acaagctgcc	tctgcctccc	ccgtcccca	ccatgctctt	tccagattca	tgaccacag	10380
aattagaaga	aaatttaaat	ggtgattatt	ttacaccact	gactttgggg	tggtttgtaa	10440
cacaccagtc	cgcagcaact	gtgacagcat	acaagattta	acagagttag	cagacgcatt	10500
cgcccgcatg	ctgaacagcg	tgctgaaggc	tcccaccct	tccaaaatga	tgggctccac	10560
atctgectca	aagaacgtgt	aaccctgca	aatecttccc	taaagtctct	ttgcttggca	10620
atccttctgc	ttggccaggc	atggtggctc	gtgcctgtaa	tcccagcact	ttgagaggct	10680
gagggcggtg	gatcatttga	ggtcaggagt	tcaagaccag	cctggccaac	acggggaaac	10740
cctgtctcta	ctaaaataca	aaaattagcc	gggcgtagt	gtgggcacct	gtaatcccag	10800
ctattcagga	ggttgaagca	ggagaactgc	ctgaactagg	gaggtagagg	ttgcagttag	10860
ccgagatcgc	gccctgcact	ccagctggga	aacagagtga	gactgtctca	aaagtgaata	10920
caaaactcct	gtttccttgt	ctgacccttg	tctgtataac	acacctttgt	gtccccagta	10980
aagcagagtt	gtggcagaca	tcattagggg	cctataatth	ctacctcaaa	gaagccacca	11040
gatctgtccc	ttttagtgg	tagactgaac	aggactgact	tggctaaggg	caaaaccctt	11100
ctttccacct	ccttccacac	tcagaattgt	ttggcagcct	ctcttttagga	ggcaggtaat	11160
aaacagtaaa	ccttacatag	tgctcagtgt	gtggtggctc	tggtgcaagt	gcctgtgttt	11220
tagtcgggaa	gacggctctg	tgaggtgggt	gttatcatca	tcccttttat	atagaggaga	11280
aaatacgcac	atagaggtta	actaacttgt	gaagtaaggc	tgaatttgtg	gcggagccaa	11340
gattggggcc	cagggccagg	cgtggtggct	catgcctgtg	gtctcagcac	ttgggaggct	11400
gagggcggtg	gatcgcttga	gcccaggagt	tgaagatcag	cctgggcaac	atagggagag	11460
ctcatctcta	caaaaagttt	agaaattagc	cagcgtggc	ggtgtgcacc	tggagtccca	11520
gctagccagg	aggctgagtt	gggaggatca	cctgagccca	ggagggttag	gctgcagtga	11580
gccatgatag	tgccacactg	cactccagcc	tgggccacag	aatgagacct	tgtctcaaaa	11640
aaaagataga	aatgcagaac	atggggctcc	acccacgaa	gagccatttt	caggattcta	11700
ccgaatcaga	atctacattt	tttcaaaatc	tcgggggtgg	tgggtgggag	gggggagttg	11760
taacagggtta	gtttgagaag	ctctgacctt	tcttaacctc	tacacctgct	gcgcagcaca	11820
cagaggcacc	cccaccagaa	accttttgaa	gactgggggtg	caaagcaaat	tcaccactgg	11880
tgctgagagg	taacatctgg	tttctctcag	tacaaacagc	acgcactgct	ggccaggggg	11940
tagtggtctt	tgctgtaat	cccagcactt	tgggaagctg	aggtgggagc	agcatcactt	12000
gagccctgga	gttttgagac	cagcctagac	aacatggtga	gaccttgtct	ctacaaaaaa	12060
tacaaaaaat	tagtggggcg	tgggtggcaca	tgcccgtaga	accagcgact	cgggaggctg	12120
agacaggagg	aaccacctga	attcggggag	ttcaaagttg	cagtgagcag	tgattgaatc	12180
actgcactcc	agcctgggca	agagcaagac	caggtctaaa	aaaaaaccac	cactgctcca	12240
gggggtccagg	ggtcaggcac	actcaatggt	agtaattgct	gccactattt	tttttttttt	12300
ttgagacagg	gttttgcttt	atcaccgagg	ctggagtaca	gtggtgtggt	catgggtcac	12360
tgcaacctcc	atctcctggg	cttaagcgat	cctcccacct	cagcctgcca	cctagctggg	12420
atcataggtg	tgcaccactg	cgcccagcta	atttttatth	ttttagagaga	tgggggtctc	12480
actatgttgc	ccaggctggt	ctcagactcc	tgggctcaag	cagtcctccc	acctcgacct	12540
tccaaagtgc	tgggcttacg	gtgtgagcca	cgcacccag	ccttgctgcc	actggtgtag	12600
gtattttacta	tgtgccaggc	actgctctat	cttcccttgc	tgaatcccca	aagtagcctc	12660

aaggacacag	gtgctattat	ttcccatttt	acaaatgaga	aaactgagaa	cacagatagt	12720
aaataatttc	cccaaagtct	aacagctagt	aagcaaggag	ggctggattt	gaaaccaaac	12780
tccaccactc	acagcttttt	ggaaggttaag	cggaaagggg	ctgagtggat	tcccttctga	12840
tctattactgt	ttgaaacatc	gtgggcccct	tgacacttag	cctctgacct	cttgctgttc	12900
tctctccatt	ccagcagtg	ccatccctca	gcctcagagc	caggtgaaaa	gatccccctc	12960
gaacagtgcc	tttgacaagc	cttaaagaaa	aatcccgtca	cgtgcggcta	ctcgggcttc	13020
tcttaaattgt	acagggagg	caggaggggt	gcgtgggggc	tgatctagcg	aagtactcac	13080
atctaggcag	agtttaaaaa	gttggttagca	gggcacgggtg	gctcctgcct	ataatcccag	13140
caccttgagg	ggtcgaggca	cgaggattgc	ttgagtcagg	gtgtttgaca	tcagcctggg	13200
caccatagca	agaccacatc	tctaaacaaa	attttaaaat	acggtggctc	acgcctgtaa	13260
tcccagcact	ttgggaggcc	gaggtgggag	gatcacaagg	tcaggagatc	aagaccatcc	13320
tgaccaacat	ggtgaaaccc	cgtctctact	aaaaatacaa	aaaaataagc	caggagtggg	13380
ggcgggcacc	tgtagtccca	gctactctgg	aggctgagg	gggagaatgg	tgtgaaccgg	13440
ggaggtggag	cttgcaatga	gccaagacca	cgccactgca	ctccagcctg	ggtgacagag	13500
cgagactctg	tctcaaaaaa	aagaaaaata	aattaaaagt	tggtgattta	atgaaaattg	13560
tctccttcac	tgacatttag	cgagaggtca	gaggtcacac	tgtagacacc	agctgtcgag	13620
gcacaggcag	tgctcgctcc	tcttaggcaa	ctcttaggac	tttaacactc	caggggaaatc	13680
atcatgaagt	caaaccgctg	cagggaacag	tcacactggc	cccaggccac	acaacaatat	13740
cactggcagg	ttttatcttc	tctgagtaag	taagataaag	tgaaaagcct	agtttaagga	13800
gccgggcttag	cttggtcaaa	atccctgggc	ctgggcttaga	gcaagtagag	acaggtgtgg	13860
gaaaggaaat	aaatcagacc	aagctgagcc	catcattaaa	gttttaattct	ctagaaagtt	13920
tagtatgaag	tatttgacat	acaaaaagcc	ataaagaatg	tcacgcacag	cttgccaggga	13980
gcaaaaaaaaa	aaaaaaaaaa	aaaaagacga	aagaaaaagc	acgttacagt	gaacgtccat	14040
gtacccattg	cccaattgga	gaaagaaaac	atgccagtg	tattaaagcc	cctgggtgtgt	14100
cctccctgcc	tgctcctct	gagtgaaagca	taatcctaaa	tgtgggtttct	tgtgttatct	14160
tagtcttttt	ttttaagaaa	aaatctttct	gccaatgggg	ataatggctc	catgtggccg	14220
aggtgagact	aagaatctgg	agaaagagca	tcagcttgat	gtagctttta	ttgagtaaa	14280
gaaaaaggga	attcagccgc	atgatacaga	ggttccagtt	gatcagagt	cgcaaacacc	14340
cttcctgtct	gcgtgatggg	aaccgcacca	gcacacgggg	cacgcggaag	ccactgccgc	14400
aaggagatgg	ttcccactct	cacgcacatg	agcagctcct	ggtcagtccc	aagaggcaag	14460
ggcagagggc	atgggtggctc	tcacagagct	actttacaaa	taaactgtgt	gtcttctcca	14520
ggagtctctt	acaacacttt	taaaaaactg	aacagaaaaat	agggcacaag	gccaggtggc	14580
agtgccatga	ggcacatgga	atgtcctggg	ctgtggaatc	gtggagggtg	acaggagcag	14640
catgatcagg	cattgtatga	cgagggtgac	acggtgccac	catggcctgt	ccagttgggtg	14700
tgataaaact	gccctgggtt	ggccaagagt	tcataaggtg	gagccccgaa	gtaatccgcg	14760
tgagcctagg	aaacgagaga	gtaggttggt	caggacagtc	catggcgcac	gcccccgagg	14820
ggccagccag	gttaatccct	gctccacagg	cttacctgga	tgaggctggc	tggaagcatc	14880
tcagtgtctg	acccgtcata	gaaggagagg	gcagtggtaa	aacaggggcat	gggaatgcca	14940
gcctggacc	cagtgtgac	tgcccgccgc	caggagtcct	gagcacaaaa	cgcacggcca	15000
gagatttagt	atctgcccct	ggtgacgcgg	atagattttc	attcatatca	atgtgggtaa	15060
atgaaaaact	gatgggttag	ccaggcgcgg	tggtcacgc	ctgtcatccc	agcactttgg	15120
aaggctgagg	tgggcggtatc	acgaggtcag	gagttcaaga	ccagtctagc	caacatgggtg	15180
aaaccccatc	tctactaaaa	atacaaaaaa	aaaaaaaaaa	ttagccaggt	atgttggcac	15240
acctgtagtc	ccagctactt	aggaaggctg	gggcaggaga	atcgcttgaa	cccaggaggc	15300
ggaggttgca	gtgagccaag	atcatgccac	tgtactccag	cctgggtgac	agagcgagac	15360
tctgtctcaa	aaaaacaaaa	aacaaaaaaa	aaaaaacaaa	aaaccaaaca	tcacaactga	15420
tgcccccagg	gaggttaggt	aaccatggca	ccagccctag	gctacatacc	tggcagtttt	15480
caacagctga	cttaaagaag	tcgtccagta	ggaggttctg	aagttccggg	tttcgatcaa	15540
atgcacctct	tatctttcct	aggaatacac	tgaaataatc	aaggggggaa	aaaagcaatg	15600
agtctttttt	tttttttttt	tgagacggag	tcccgttttg	tcaccaggct	ggagtggagt	15660
ggcacgatct	cagctcacag	caacctccac	ctcccagggt	caagcgattc	tcctgcctca	15720
gcctcgccag	tagctgggat	tacaggcacg	caccactaca	accggctaata	ttttgtatct	15780
ttagtagaga	cagggtttca	ccgtgttagc	caggatgggtc	tggtatctct	gacctcgga	15840
tccgctgccc	tcggcctccc	aaaacgctgg	gattacaggt	gtgagccacc	gcgcccggcc	15900
aatgcaatg	aatcttaact	ctaacaggga	agtaagctgg	aagccgatgt	ataccctagt	15960
gaaacaaagt	tacattttct	attttctcaa	ctgtttaacc	cttttctctg	ttagaaaaaa	16020
agtgacgctc	gctgccagcg	ctcatttaac	tttacataaa	cacgcttttt	gaggctgaag	16080
aaaactctgac	gatttttcaat	atgaaaataa	aatataaaaa	ctattcttgg	cgttattttct	16140

aaagagaact	aatattagaa	tcatctgaat	caccagaatc	atctacttca	gaaaaatcag	16200
attcatcaaa	tgaatcttca	gccaacatga	gaacgatgta	acgtcatgtg	tagaaatgct	16260
acgtttttcta	tgatttggca	ttttcaatga	aaatacacagag	caaaattccc	aagaggcaag	16320
gccagagggc	acgatagttc	acagaagtac	tttaaaagggt	gtagtgtagt	aggtgtaatg	16380
cggagccggg	cgcagtggct	cacgcctgta	atcccagcac	tttgggaggc	tgaggcgggc	16440
agatcaccca	aggcaaggag	ttcgagacca	gcctgggctaa	catggtgaaa	ccctgtttcc	16500
actacaaata	caaaagaatt	agccggacat	gggtggcgtgc	ccttgtaatc	ccagttactt	16560
aggacgctga	ggcaggagaa	tcacttgaac	ccgggaggca	gaggttgag	tgagtcaga	16620
tcgcatcatg	gcactccagt	ttgggcaata	agagcgaaac	ttggtctcaa	aagaaaaaaa	16680
aaggtgtagt	gtggacaatc	tagttacagc	aactgaggta	cagtgaagaa	gggaaccaca	16740
taatctaagc	ctatcttggtg	ccagtgtcca	gtgatggggc	taagtgccca	tccctgaaa	16800
ctgctcaagc	taagtgtcct	aagatcgcac	ttctgcacag	ccgtgtgagt	ccttcccgtc	16860
ggaccctggg	ctgcctctca	cttacccttct	aatgatgcag	ccccctctcc	acatcagggc	16920
gatgccacca	taattgagag	tccagccaaa	ctcgggtggct	gcctgcctta	gcagcataaa	16980
gccttgagcg	taagagatga	tcttggaagc	gtagagtgcc	ttaaagagtga	cacagagacc	17040
tactaggaat	gccattagga	gagtgaccgc	cttatgtcta	ccagtcttat	tctcatcagc	17100
agtggagatc	ccagaagggc	caatattcta	ggaaaacatt	gtaagtcaag	atccaagtca	17160
aggctgaact	tcattccacc	tgccatcctg	tgccctcgag	tggtctccca	ccacaacccc	17220
cacccccact	gccttccgca	ggaccaacaa	agaccactgc	cagggactgt	gtcccacctt	17280
ccgaatgtcc	tccaggaatg	atcttcttatc	accatcaaac	tggaacttct	ggggaccctt	17340
cagctttttg	ctagcttgaa	ttctctcatc	cttcagagat	gataagcacc	gagcaaagac	17400
agcttctcct	acatggggag	atcggaaga	ggaaacagat	tactgtcagg	cctctgagcc	17460
caagctataac	tatcatatcc	cctgtgacct	gcatgtatac	atccagatgg	cctgaagcaa	17520
gtgaagaatc	acaaaagaag	tgaaaatggc	tggttctctgc	ctttactgat	gacattccac	17580
catttgtgatt	tgttcctgcc	ccaccttaac	tgagcgatta	accttgtgac	attccttctc	17640
ctgggtcaga	acctcccca	ctgagcacct	tgtgaccctt	cggccctgcc	cgtaagagaa	17700
aaacccccct	tgactgtaat	tttccactac	ctgccccaat	cctataaaa	ggccccaccc	17760
ctatctcctt	ctcgtgactc	ttcggaactca	acctgcctgc	acccagggtga	ttaaaaagct	17820
ttattgctca	cacaaagcct	gtttgggtgt	cttttcacac	ggatgcgcat	gaaaattacc	17880
aaagttcgca	cagcaaccag	aagaaagggtg	gagcaggaaa	gtctgtttat	acaaagagct	17940
gaaagtttca	accttaggcc	acaaaagttg	acatggatcg	gaaggaaact	ttataagaag	18000
ctctaaacag	ttaatttgat	aactaaaact	cttaagacaa	tcttccaata	caaacatgag	18060
tattcaatca	caaagattaa	catgaaattc	aaaagggagt	tttgagggaa	aatgaagaga	18120
tagaaaccac	tgttatggct	gggcaagggtg	gtcaacacct	gtaatcccag	cactttgtca	18180
ggctgagggtg	ggaggatcac	ttgagcccag	gagttcaagg	ctacagttag	ccatgatcac	18240
accactgctc	tccagcctgg	gcaacacagt	gagaccctgt	ctctaaaacc	agtaaaataa	18300
aataaaaacc	actgttatgt	agaataactca	gtgttggtcc	atgagtaaaa	tttcaaattc	18360
aatttagagg	accttaattt	ttttttttga	agattttaca	ttgataagtc	acattttacg	18420
actcacctct	caaaaaaatg	ttagggtttt	atattttacg	gttttcagta	tagccgtaat	18480
cattcaagtt	taaccacttt	acttcatttg	aattaaaaag	tcaatgtagt	attttaatat	18540
taagacattt	agtattttca	gaaagtattc	cttataaaaag	acttgctcaa	ctgacaactt	18600
atagttagaa	ttaatgactc	tttaaccact	ttttcccca	tagacaaaat	gaagtaaaat	18660
ctcagggaa	taacagagga	ctttatttct	gaggaaagag	gagcagctat	ggcttgagac	18720
tgctaaccct	actccaaaca	cacaaaagca	gctacctctc	tcctggccca	aatgcacaca	18780
caggatgact	tagcatttct	agaaggaagc	tttgtaagat	gactggtgca	acaggctatg	18840
aggcaaaccc	ttcctgttag	agggggagag	ggcagctgga	agacttccct	gttagttcac	18900
aaataatgat	ggctcccagc	aggggggtggg	cccagccacc	ctgggggaag	aggtatatgg	18960
atccacagga	ggagagtagg	attctgagat	cctaataactt	acacatatac	ttgagtccgt	19020
gatgaataaa	ttgctcctag	ctattggccc	ctccctcctc	acctatgtta	tggtctagat	19080
cggtctaaaag	cagccaactt	ccttctatcac	agcacgggaa	tgtagaaacc	accgactttc	19140
ctccttactc	tgcttatcac	cacacagttc	aatagggcga	ggcacaatga	acaggagggt	19200
caaaagggga	gaagagtcaa	gggagagaaa	ggcaacctgt	atccagagga	gcaaacagga	19260
aaaattctgt	tttattattt	ttgagatgct	tctttttttt	tttttagggc	gagtccttgc	19320
cggtcgccca	gcctggagtg	cagtgggtcg	atctcagccc	actgcaaatt	ccgcctccca	19380
ggttcaagtg	attctcctgc	ctcagcctcc	tgagttagctg	ggattacagg	cacgggtcac	19440
tatgcctggc	taactttcgt	attttttagta	gagatggggg	ttcgccatgt	tggtcaggct	19500
ggactcaaac	tcctgacctc	gtgatccgcc	cacctcggtc	acccaaagtg	ctgggattac	19560
aggcgtgagc	caccgcgcct	ggcccaattc	tgttttaata	tagtgagaac	aatctgccag	19620


```

aagcaaagat cagcctctca ttaaccacga gaggcacccct tcgttctcct ttttcattcc 19680
tgccagaagt ctatgtatatt tactcttaga accaccccttg ctgggcatgg tggctcacgc 19740
ctgcaatccc agcacttttg gaagccgagg cgggcagatc cctgagggtt aggagttcga 19800
gaccagcctg accaatatgg taaaaccccg tctccactaa taacacacaa aaattagcca 19860
ggcatggtag cgcatgccg taatcccagc tactcgggag gctgaggcag gagaatcact 19920
tgaacccggg aggtggagggt tgcagtgacc cgagatcatg ccactgaact ccagcctggg 19980
tgacagagca caacaccgtc tcaaaaaaca acaaaacaca ctgaaaacca cccccccggc 20040
caagattttg atattgttaa tcccctctcg ttttatgttt atttctttat attatttctt 20100
tatctttctg agtttgatgc ttagctcact aatgtaagat ataaaaaag tgggcaggat 20160
acacaccaac ttcaggatag tggctttctt ctaaaagagg aaggagaagg aacttagcaa 20220
aacaacgagg actcaaagg ataggtaatt tttatctttt taatatctag gggaaaaaag 20280
taaattttta ataatttctg agtacacaag catatgttat tcgcaaactt tttttggagg 20340
ggatggagtc tcattctgtt gcccaggctg gagtgcagtg gcatgatctt ggctcactgc 20400
aacctctgcc tctgggttc aagcgattct catggctcaa cctcctgagt agctgggatt 20460
acaggcacct gctaattttt tttttttttt gagacgaagt ctgctctgt caccagggt 20520
ggagtgcagt ggtgccatct cagctcactg caaactctgc ctcccagggt caagcaattc 20580
tctgcctca gcctcctgag tggctgggag tacaggcacg tgccaccaca cctggctaag 20640
tttttgtatt tttagtagaa acagggtttc atcatgttag ccaggatggg ctcaatctcc 20700
tgacctcatg atccaccgc ctccgctcc caaagtgtg gcattacagg cgtgaaccac 20760
tgtgcccggc cctgttattc atgaactttt ctatgaaaaa ttttactcaa gttacctgcc 20820
tcataaataa aatcttagat cactgactac aattacatca ctaatgctaa aatattccaa 20880
agataaaact ggataggaag gacagtcact tctgaattta cctcacagtt tgtacgaatt 20940
agataaagaac tacaaggaag agaatacaaaa actgagctcag cctctctcac actgtcagtt 21000
tcttcaacgc aagaaagagc aaaaggcact ctgaaagcta aagagggtg aagagattct 21060
ctaaagacca gtctgtatct gtccctccaga catcaagatc agaatagtgg acgaaagggc 21120
ccatgtgaaa agcataacat taccaatgag ggtgacgggt acgccgtatt ccagggcgga 21180
gatggcggtc cacttccctg tgccttctg ccccgcgctg tccctgatct ttggcagcag 21240
gtgtttgccca tgcgtgtctt ggaacttgag aatattggct gtgatttcaa tcaggaatga 21300
gtctagctct gtcttattcc aatcctcaaa ggctacatg cagaacacag gagagaacca 21360
tgttagagga atgagggtg agcaaggaag ccccttgtcc aatgtccacg ctgaccaatg 21420
ctcacgggtg ccagcaggct ctgctcgcgt ctgcctgggg acttctgctc ctgctggtt 21480
agttttatgc taaccagag tcagttgtgt ttgttctgaa cctgggtata ctgaatttct 21540
ggccaccaga agtgttgtct cctcagaggc aagggtcct cacttcaactt aggtctctgt 21600
gcagtgtcgc ctctcagaa gccttctgca atcacggat ctgtcccag tttactcttc 21660
gttctcacag tcatcgctaa ctagtgtgat attgtatatt ttttctgtc tgtcttccca 21720
gctccgggag ggcaggcact ttgctttctt cactagtata tcccagcat ttagaatcat 21780
gcttggcata tagtaaaagc ctctgtgtgt tgctgagtga acacgttaag tattatata 21840
accaataaaa aatgaacaca aaaagaatag cactgtttct gtgaaagaaa actaaggtaa 21900
tgtttttagaa agaacaatta acagcaatcc agtgaaacaa acaatagtca aagtaagtga 21960
ggatgacatg aataaaaaac taggaggaaa atctggaaag ctatactgta 22020
tgcttctgta gagtctgtaa atcacatccc attggaaata actgaaacta gaaattctag 22080
a
22081

```

<210> 78

<211> 1119

<212> DNA

<213> Homo sapiens

<400> 78

```

agatctcttt catttggtgtt tttacaaaag catttttagag atgattatac acaacaatta 60
cattaatcac ttactctaac tcagctcatc gagacagagt aagctgatgg tatcactttg 120
atctaggaca gtgggttctca actgaggatg ccctccctgg gggatatttg gcaatgtctg 180
aagacatttt tgggtgtcac aaatagagtg gagctgctac tggcatcttg tgggtagggg 240
ccaaggatgc tgcaaaatat tctaaatgca caggacagcc cctcacaaca gagaattatc 300
cagcccaaaa tagtgctgag gttgagaaac cctgggtctag gaaaatattc tgcccttcta 360
tgtctcctt gacatcagta atgtaagtct ttaccatatt ctatgcaata tgctcctttt 420
gctttactac taataaaaacc cattatgata aaacccttac aacaagggtg tgctgggcac 480

```

```

agtgggtcac gcctataatc ccagcacttt gggagggtga ggcgggtgga tcacctgagg 540
tcgggagttc gagaccagcc tggccaacat ggtgaaaccc tgctctact aaaaatacaa 600
aaattagcct ggcgtggtgg cagcacctg taatcccagc tacacaggag gctgaggcag 660
gagaatcgct tgaacctggg aggcagaggt tgcagtgagc tgagatcgcg ccattgcact 720
ccagcctggg caacagagca agcctccatc tcaaaaaaaaa caaaaaacia aaaaaacccc 780
aaaaaaciaa aagatgcctg tctccatgat tttgctgttg ctaacgagaa ggcaaattat 840
tatgctcaac agtcagttct ctgataaaca tctgattcaa ataccaagac caccaaaaat 900
caattcaaaa ctggaattcg gccaggtggt ggtgggtcat gcctgtaatc tcagcacttt 960
gggagggtcga agcaggagga ctgcttgagg ccaggagtgg tcaagaccaa cctgggtcaac 1020
ataacaagac tgcattctta ttaaaacaaa aacaaaaaaa aaaccatccc tggaatttga 1080
cagtgacaat gattcatgaa cccaaatata aggaaagga 1119

```

<210> 79

<211> 937

<212> DNA

<213> Homo sapiens

<400> 79

```

ggatccaccc acctcggcca gccaaagtgc taagattact ggcattgagcc actgtgcctg 60
gccaatTTTT tttttttttt tttttttttg agacagagtc tctctgtcgc ccaggctgga 120
gagcagcagc tcaatctcgg ctactgcag cttctgcctt gcggattcaa gtgattctcc 180
tgctcagcc tcccagtag ctgggactac aggc aaatgc caccacaccc actaattttt 240
gtggttttaa tagagatggg gtttcacat gttggccagg cttgtctcaa gctcctgacc 300
tcagggtgatc cgctgcctc ggcctcccaa agtgctggga ttacagggtg gatcatctct 360
ccaccccttg cagaaaatta ccgagagggg aggatgagcc tcaattgcaa gacaagctaa 420
gcaatggtct cagccacgtg tcgacagagt tctgttgagc ccacctgtgg gtactccgcc 480
tcggggccga agacacagct gagctgcagc tgatgacagc tgaaccacaa agggcataaa 540
atctaccagc aagtgttcaa cgcataaggc agaggaggag gaactgccaa aacccaagtc 600
caggaactca ggatagaggc cagacagatg agggaggcat ctactttcct gaatttcaga 660
cctcacaaga ctaggtaagc tgaggcctct ggtaggagaa gccaaagagg catcaacctg 720
ggaggcacga agatcacagg tgtgatcact gcacactaca gcctcgaact cctgggctca 780
agtgaacctc ctgcctcagc ctcttgagta gctgggacta caggcccaca acacctgcc 840
cggctcaagg tcattctttt taggtatggg tgggggtcag ggtacaggac atgaattctt 900
ctgaatgctc ttggctccag gaattttttt cagatct 937

```

<210> 80

<211> 5301

<212> DNA

<213> Homo sapiens

<400> 80

```

ccatggaagc atgcatgagt ctggtgcgct gcttttcttt tggtgtgtgt gttttgagac 60
ggagtcttgc tccgtcgccc aggcctggagt gcagtggcac aatctcggct cactgcaagc 120
tccgcctcct gggttcacgc cattctcctg cctcagcttc ctgagtagct gggactacag 180
gcgcccgcga ccacgcctgg ctaatttttt gtattttctt gtagagacag ggtttcaccg 240
tggttagccag gatggtcttg atctcctgac cttgtgatct gccacacctg gcctccaaaa 300
gtgctgggat tacagggttg ggccactgcg cctggcccg gctcgtgcgc tgcttttcta 360
tctggttctt cttgttattc cacttgccgt tggatgggga gatattccac ttcccttag 420
gaactcttgt cctgacacag accattttag ctattctgag cacatcacia gcatactcct 480
ctgggggtgag aatatatagc ctctgggctt tttcagaatt gctccttctg ctactctgga 540
agctaactgt gaattgattg ttgagtcag cagttcaagg ccagcatggg caacaaagca 600
agaacctgtt tctttaaaaa aaaaaaaaaa aaaaaaaaaa ggcgggggga gcaggcatgg 660
tggettacac ctgtaatccc agcactttga gagggcgtgg caggaggatc acttgaagcc 720
agagctcaaa accagcctgg gcaacttagt gagccccat ttctacaaaa aataaaaaa 780
attaactggg ctgggtggtg cacacctgta gacctagcta ctcaggaagc tgagatggga 840
ggatcccttg agcccaggag tttgagactg cagtgaagta tgatggtgcc actggcgcc 900

```

gggtaacaaa	gcaagaccct	gtctcaaaaa	aaaaaaaaaa	aaaaaaggag	ctgggcatag	960
tggcatgtgc	ctgtaaatga	aaggcatcat	tcatgcaag	ctcctctgag	cccaggagtt	1020
ccagcctagc	ccaggcaaca	gggcaagacc	acgtctcaaa	aaaaaaaaaa	gtactctttc	1080
cacctaaaat	atattcaggt	catttgagtt	cagtttgagt	tcagctacga	gaattattta	1140
gttgagttag	tgtcagagct	gggattttca	aatctgccct	tactggtagt	ttgctttaca	1200
cacctcttta	cgtaaatcaa	actaggattc	cacctgggga	ggtttgcata	gagggtgtgt	1260
ctttagaagc	ttgtgctcat	gctttgattt	gggattttgg	gagttagggc	aagccagaaa	1320
gtttttctgg	tggataataa	tgtgggttga	ctttcttaag	cattttaagc	caagcacttg	1380
agttttctaac	aactaaaaag	ctaagtcagc	ctgacacagc	tctagcgcg	cctggcctga	1440
ttctgttcat	ccccaggggg	agacttgccct	ttgttccagt	cctgctctcc	caagccagct	1500
tactgtagtt	ttccagcaat	tctgagaagc	agtatttttt	actgctgatt	agaaccttaa	1560
catggaaatg	gaaagtttgt	gtagcatgta	acattatttag	aagggaatac	atgactatat	1620
gattagatac	atattgattt	tatgcaatat	gtttgcataa	aatctcttca	gtagtaactt	1680
ggttaaatta	ttcacattga	ctcagcataa	tttctccctt	gctaaatctc	agactaaagc	1740
aatcaatttg	ttcctgcaag	aaagtctgat	ggtaggcctt	ccttgtaact	gagccccata	1800
gaaagaggaa	gcagctgcaa	caaagtgtga	aaggatgcct	gtaccaagg	ttcttttaag	1860
ggagccattg	tgtgaagttc	tacttgtaa	attctgcaa	gtactgtttg	ttctccaaa	1920
tccagctttc	cgttgaaagt	caatgaaaca	tctctaaaat	gcagacatac	ccagggttcat	1980
tgggaacaca	gtcactgtga	gtatacatga	ttatgtcctg	ctaaccctat	tgggaaagaa	2040
tgctgggctt	ggccctagta	agtagacttg	ggttaaagt	cacctccgcc	actaactagc	2100
tgggaagtgc	aacttccctg	agctgagttt	gtcacgttag	agaatattaa	taaatatgaa	2160
aattgtggag	cagtcttaag	tttaaaagga	actttcatgg	acattagctc	atttgtctgt	2220
gcccaccctg	ggaagggaag	aggacaggca	ggcagtgcca	tccctgtcgt	caagccagct	2280
gaggactgct	gtgagcctct	ggagcaaggc	aggagtgtga	ggaggctctc	agtccttttg	2340
tccttttttt	gagacagagc	atcattctgt	tgcccaggct	ggagtgcaat	ggcatgatct	2400
tggctcactg	caacctctgt	ccccaccct	taccactggg	ttcaagcaat	tcttaggcct	2460
cagctctcta	agtagctggg	actacaggat	gcaccaccac	gcccagctaa	ttttgggggg	2520
gttttttttg	agacgagttt	cactcttgtg	gtccaggctg	gagtgtagtt	gcgtgatctc	2580
ggctcactgc	aacctctgcc	tcctgggttc	aagtgtattc	cctgcctcag	cctcccgagt	2640
agctgggatt	acaggcgccc	accaacacgc	ctggctaatt	ttttgtattt	ttagtagaga	2700
cggggttttg	ccatgttggt	ggtctcaaac	tcttgacctc	aggtgatcca	cccgcctcgg	2760
cctcaciaaag	tgttgaggtt	acagggtgtga	gcctgtgtgt	cctttctatt	gaggcttctc	2820
ttcacatttt	ctgatcctca	gtctccttat	ttcctgtaag	gctgaggctc	caaatccagc	2880
ctgtgaaaga	taaatgccag	cagaggcagc	accagcaca	ggatctatta	ttgcagcatg	2940
ccctgtgggtc	agggccttca	gtaaaagccc	acagaccctg	actactttct	ggcggactct	3000
ggaggaaggc	cttaaccaca	gacaaaagga	caaggacagt	gctgtggagg	gactgctggc	3060
tgtgagcagc	tgaagagaat	agggaaatgca	ctctacaaaa	ataaaaaagc	ataaaattgg	3120
aaaaaatata	taccaaaaac	atttcaaggt	tctggacatc	aaccaaaggc	aggcaaatta	3180
agaagcattt	attcttgaga	aaaaactggc	tgggcacggg	agcttgacc	tgtaattctc	3240
caacactttg	ggaagcaaa	gtgggaagtt	ggctggaggc	caggagtcca	aggccagcct	3300
atgcaaccaa	gcaagaccct	gtctctacaa	aaaataataa	tgaataataa	aaagaaaaag	3360
agtggctcac	gcctgtaatc	cctgcacttt	gggacgccta	ggcagggtga	tcacctgagg	3420
tcaggagttc	gagaccagcc	tgaccaacct	ggtgaaaccc	atgtctctac	gaaaaataca	3480
aaaaaattag	ccaggcatgg	tggctcatgc	ctgtaatccc	agcaacttgg	gaggctgaga	3540
caggagaatc	gcttgaacct	gggaggcgga	ggttgcgggt	agccaagata	gcaccactgc	3600
cctccagact	gggcaacaag	agcgaaactt	agtatcaaaa	gaaaagaaaa	agataaagaa	3660
aaaaaaagtg	ctagaacttt	tttttttttg	agacggagtt	ttgtcttgt	tgcccaggct	3720
ggagtgcagt	ggcacgatct	cggctcactg	caacatctgc	ctcccagggt	caagcaattc	3780
ttttgcctca	gcctccccag	tagctgggat	tacaggcatg	caccactgcg	gctaattttt	3840
tatttttagt	agagatgggg	tttctccttg	ttggtcaggc	tggtctcaaa	ctcccagcct	3900
cagggtgatcc	tccacctcgg	cctcctaact	cggcctccca	aagtgcctgg	tttacagggt	3960
tgagccactg	accggggccg	agaagtgtac	cttttttttt	tttttttttt	tttaaatgga	4020
gtctcactct	gtcggcccagg	atggagtgtca	gtggcgcgat	ctcagctcac	tgcaagctcc	4080
gcttcccggg	ttcacgcca	tctcctgcct	cagcctcccg	agtagctggg	actacaggcg	4140
cctgccacca	tacctggcta	atttttcaat	tttttagtaga	gacgggggtt	caccattttg	4200
gtcagggtgg	tctcaaaact	ctgaccttgt	cctccgcctc	cctcagcctc	ccaaagtgtc	4260
gggattacag	cgctgagcca	cgcaccggg	gctcaagaag	tgtacttttt	tatcagctaa	4320
aagtggcaaa	gttcttgaga	aataaacggc	ttgagaaagc	cgtttcttga	gaaagaaacc	4380

cacagcttac	tagcctgaga	tctcaagtag	cagactagct	agaaatctag	gagactctgg	4440
aaatgagaat	gccacaaaag	gattagacag	gacctcagca	catcactcgc	tggctggaaa	4500
accagacacg	tacacagatg	agacttcaga	aagcccatag	aaattaaaag	ccaagggaga	4560
gctgggcacc	atggctcaca	cctgtaatcc	cagcactttg	ggaggccaag	gtaggcagat	4620
cacctgaggt	caggagttca	agactagcct	ggctaacaca	gcaaaacccc	gtctctactg	4680
aaaatacaaa	aattagccag	gcgtgggtgt	gcatgcctgt	aatcccagct	acttgggagg	4740
atgaggcagg	agaatcgctt	gaacccagga	ggcggagggt	gcagtgaagt	gagattgcat	4800
cattgcactc	cagcctgggt	gacagagtga	aactccatct	caaaaaaaaa	aaaaagaaaa	4860
agaaaaatgt	taaaagtcaa	gggaggctgg	ttgtgggtgg	ctcacgctgt	aatcccagca	4920
ctctgggagg	cagaggcggg	tggatcacct	gaggtcagga	gttcaagacc	agcctggcca	4980
acatggtgaa	accccgctct	tactaaaaat	acaaagaatt	agccaggcat	ggtagcaggt	5040
gcctgtaatc	ccagctactt	gggaggctga	ggtaggagaa	tcgcttgaac	ccaggaggca	5100
gaggttgtag	tgagccaaga	tcccaccact	gcactccagc	ctggggagca	agagcaaaat	5160
tctgtctcaa	aaaaaaaaaa	aaaaaaaaagc	caagggagat	ttaagaagta	ggtgatccct	5220
gaatgcaccg	ccaacccacc	cagataggcc	taaatatctg	agcacagcca	aggtgtttga	5280
gcacaacctc	ttcccagatc	t				5301

<210> 81

<211> 13161

<212> DNA

<213> Homo sapiens

<400> 81

cctaggactt	actcagtata	ctgtgggaag	ggctgacttt	tctacctgtt	gccaaagacc	60
tgctgtctgt	ggcagccgca	acgatatttg	tcctgctatt	aatcctctgg	aatcgatcaa	120
atatcaaaaa	taacttctct	ttgtttttgt	ttctaattta	gcagagaggg	attaaaaaga	180
aaaaaaaaac	tttagattat	atagatctaa	aaatagacat	catggatgct	gattggaaac	240
ctccccagtc	gttcatatga	gagatctcaa	tttgtgttac	atagaggggc	agctcacttc	300
tgtcttggtc	gccagttata	ctactcccca	gagaagctca	ataaatttta	taggaaagtt	360
tctcctttat	gtggaaggag	ctaagctcaa	tgactgggtg	gtctgatata	atttagggct	420
ccaagggagt	acgtctgcct	tgtggaataa	cctatcaaaa	gtaaatgtac	agaaactttc	480
gatcttggtt	gattttggct	tgtcattgaa	actgctcagc	actggacccc	gtgaacccag	540
cctgtctgct	ttggaattaa	actgctcccc	caaactcaca	ttcgattcac	tggttaaagcg	600
gcctttttgtg	tgtctcactg	gtagtggctt	ctgggctcgc	ctgctgttgt	tccacgggtt	660
ccaccgctgg	ccctttgaaa	cctccaaact	tggacgtggg	tgagttttta	catccctctt	720
tgctctctct	gttgacatta	ggaaagcaga	cctgccttct	ctttaggctt	cgagtggaac	780
aagcctgcc	gtttcctcag	tctttcagct	agcagtga	tacattttgc	actggctttt	840
ttactcagtg	atttacactg	ggagacgtgg	ctgggtgatg	tccagtgtcc	ttttgtcttt	900
gtgttttatt	ttcttcacac	tttaattgtat	ttaaaggata	tattgtcttt	atgggttact	960
gggataagga	gggattgggtg	caagttttta	tgagaggtgc	cccagctctc	tgtgttgagc	1020
tgagaattat	cttcttggtt	agatatcttt	ctttctttcc	ttaggtggca	ggaggcagtg	1080
ttttgctgct	ttttgaaata	atgtttctgc	ctaacgattt	ctagaaggat	accgagagga	1140
cattcagctt	cagggcatca	tcagcaactt	tttctcctgt	tgtttgaact	tccttcattt	1200
aaggagaggg	gaaagtctca	ggtcttggtc	ttgaatttac	atatcaatat	taagatgatg	1260
ggaaacagcc	ccctgccact	ccccatcatc	tgatcaattc	ttataaaaa	tcttgcattc	1320
agggtagtga	catgtggaac	tagttttctc	agaaactgtt	ttcactgctt	gggaatagtt	1380
aatcagtgga	ggaaaaagtg	tttgatttat	ctgcttaata	ttttaaccaa	gtgaattaga	1440
caggttgggg	ggctggggga	ggggataaga	aagtgggtgg	gggaggcccc	ataaacaagg	1500
tgatatataa	tatttttttt	gttctccttt	taaataaata	ccgatcagct	ttatgttcag	1560
agacaataga	agccgttggc	ttaaatttgc	agtttactgt	atztatggct	gtaatatcaa	1620
ggtgctgccg	tcgtaatctc	atgccccaat	gagaagagca	aggctgaagc	aaatgcttcc	1680
atcggcactc	gctaacacac	taactcataa	acaaggcccc	gctggatcag	gtggcacgga	1740
ataatacagg	ctaatagaat	acagcacagc	tttccattac	tgtagtgggt	tacagtgtcg	1800
tcattacgtg	taattttatg	ttaaaaaatt	caattttata	caaggcactg	ggaaataggg	1860
gtctccaggt	catcctacga	cttttagagg	ctctgagagt	ccttattgta	ctctactgtt	1920
ccaacaaaat	gttcataaaa	taaaaataaaa	atacttttcc	ccttcccctc	cctgaacctt	1980
ttctgagaga	gttgattttt	ttcttttaatt	ttgggaagta	tttttagcca	gctgtcttct	2040

ctgcctcatt	tcctcccaga	gtgtgccggg	gcagataact	tagttgttct	gagagaggtg	2100
acccccctct	agtgtccatg	agtcccagat	gaattggcca	agtcctagaa	atagaggggc	2160
tgcagagcgg	ggaggaagag	gtcccaatga	ccagcccttg	actgccaccg	tttgtcactg	2220
gccccctggc	cctgttcccg	tgatcccagt	cagatgccac	atttttataa	taaaactagg	2280
gctgagcagg	aaggcgtgg	caggagttca	ttaccttgct	tattttcaaa	ctcttcccaa	2340
cccttctgtc	ctgggtgttg	tttgacctga	aagatgaaga	gaacactgct	gtcttctgtc	2400
atctgtcttt	ctgcttcacc	tgcacagggc	caagccccgt	ggcagtgcc	agcggtcact	2460
ggggacagtg	ctgaggttac	ttatcctgag	aaacccttgc	acggcctgtc	ccgcagagaa	2520
aagacagccc	ttccgggtcc	ctgggttggt	ctgagtcgtg	ggaaaggacc	ctagggcattc	2580
acaatcgcag	cctgtaccct	gcagctcaca	gagtcaatca	gtttggtttt	atttgcattt	2640
gaacagaaac	cttgagaaaa	agaaagccaa	tttgtttatc	ttctagggga	taaaaatagg	2700
caagtgtggc	agccctgtgg	ccacgcaggt	cagacactgc	agcagtgaca	ctgggggtttt	2760
attaatcaat	aggatgtagc	tcacttggtc	tgtcctttta	aaaaaaaaag	cccaccctgg	2820
agaagagatg	cttggtccag	ctcctacaca	agggcagcag	tcattctccg	tccagggagc	2880
tcttctggag	gtttttgcaa	gtagattcta	gagaactgag	agaacaagaa	gtcttcccca	2940
ctctgggcac	atggaatctt	cattcaaaga	gtttggtttg	aattgagagc	tctcagtttt	3000
gcataatcagg	taactatgat	gtgaaaagat	gaagcggcct	ctttacctct	cagagtgcagc	3060
ccagaccctc	ttcgccctcc	ctcctctcag	agaagctccc	tcgtcccttt	ctcctccttt	3120
tgactagagc	tagtgggtgg	agagagtaac	tgaacgggaa	tttcttagtg	ttattctcta	3180
tcaataatat	attttaattg	tcagtgcctat	agactgggtg	gctggggggt	gggagctggt	3240
ggctcttgaa	aatcaccaag	tggcagaaaag	gaagtatatag	gaagaacata	aaggcttagt	3300
gccagtgggtg	tcaggtaatg	catattgata	cctcaactaa	aagaacattt	ggggctttat	3360
taaaattgac	taattcttcc	aaagatagca	gctaaaggag	gacttagatg	aatagaggag	3420
ggaggaggct	tgcaggacgg	tgaagccctt	tgtctccagc	tctctgcctg	ctcagccatt	3480
gctccgtccc	tctgcagtta	gattattcct	tgcagatagc	aatcaactgg	aagggaagtgt	3540
ctgtgtctaa	tttgcatgag	attatttaaa	acaacaacaa	aaaaaaggct	tgcattagtc	3600
aggggtgatg	taaacaacgc	aaagaagatg	cctttttataa	tctagcctgt	gcctcagctt	3660
tcagagccaa	atataattca	cttacaattg	gcagtttccct	ttattattcc	ttttaacctt	3720
ttggattctg	caaggtctca	atctaagatc	agcagtttgt	cttggcagta	gtgggaaaga	3780
tggggctagg	gcaccgggat	gtcctatgtt	ggctccatgg	cagcactttg	accctgaagg	3840
caggggtcatc	acagacccaa	gagccaatga	ctgggcagat	aactagtgtg	gatctggaga	3900
caggtgggtg	ttcccaactca	gtctccctaa	gttccaaatg	aatcacctga	gtcctgtaaa	3960
tgcagtctta	aagctggcca	gttctgccta	aggtggggac	attccagagg	aagatgacac	4020
tcaaggaagc	ctatgacagg	cattttggact	ttgatttcggg	ttagaatatt	agaacagtaa	4080
caagatgagg	acattctacc	tttttctctc	tagtattgtt	caaaaagttg	tccaggcgtc	4140
atttacagat	aggagccagg	gggttaagttc	ctgtattgtt	tcaatgtagc	cccaaaacaa	4200
tattcactgg	ctccttcctg	tagatgagag	tggcggggta	gggagaagaa	aatgtagtcc	4260
ttctcccaag	ctctttaaca	agtctgaaga	cctaggacat	agtttgagtc	tgccatttga	4320
tgttttghta	ctctgggtga	gtggagagtc	actgggctga	agagggagag	ccttgagtgc	4380
ccatcacatc	accactctct	acaagttaga	tgtggggcat	cgtttctacc	ctccttgggc	4440
ctcaggtttc	ttatctgtta	aatgagggca	gtgactggga	taatggcccg	gctctgaatg	4500
tgattcagtg	agattgttaa	aacgcttact	tttaaaaaga	agagaaagga	ttcatttact	4560
gtaactaaat	caaaatcctg	cctctcccag	agaaccaggg	atatcagaat	ttcagccaat	4620
ataaattttg	agcctcaaat	gataacgtct	gtgaaaaaca	agagcttggg	aggaagtact	4680
gatgcccttt	caactgtggc	ctcactagtg	ggctcggctg	cgataatgca	aggaacatgt	4740
tttattagga	aaataggctt	cataaaaagct	cagggccaga	gggcagaact	gcgggcaggg	4800
cgctcctgtc	ctttaaccag	ctccggccct	cagggccaca	gcacagtctg	taacttactg	4860
tatatttccc	cagtgttaaa	cattattgtg	cttgtttata	tttgaaagag	ccaaaaggga	4920
aaatgagaat	gcaactgaat	gtcctttttg	ggaaaattat	cttcatttgc	agccagcggc	4980
tgacaaggca	cacgaaccac	caggtttata	aaattccgta	gtgtaccagt	gaccatcagc	5040
ctgtgctgac	atcgcagatg	ctgctttctt	ctotaatggc	tgattatgaa	ctggttaaaa	5100
caatgtcttt	cccaccaggg	ctccgaaagg	ggttcccttt	cctgtttagt	cggagcgatc	5160
ggcagtcact	acacagggctg	gaacctgaga	ggcacaaaact	cagggcgggg	gtattctctg	5220
ttgttgccctg	gcttgccctg	tggctcctgtc	cctgtttctt	ttggaagggtg	aaattatggg	5280
taaagcagtc	cctttgcagc	aagcaccctc	tctctagctc	cactctactg	accttcagct	5340
tctgtctttg	gaaggtggta	cgtgatgcgc	tgtgaacctt	ggaagcattt	tcattccagcc	5400
cccaaatctg	ttgagagcat	ggtgctatca	gggcaaccgg	gtggctcttc	agacttccca	5460
gtgggtgaggc	tgtgcctgcc	cttggccagc	cccactgtgt	gaagaggggtg	aagaggggaa	5520

cagctgcagt	tttaaatggg	gatagtcctc	aactcctcag	cacagagaag	ggaaaaaaga	5580
gtccagggct	gttttagaaa	gttcgggcat	tttcctttga	ctagctgtgg	tagggcatga	5640
aaagtttgag	gggtggtgc	agtcaactca	tatgccagta	tgggtgcagg	cggagctgtg	5700
ctttaaagca	ttaatgtgca	ccatctatta	gccccaggc	atggagtatg	aggcaccatc	5760
cttttgaaga	tgctgatcct	cagaacctcc	ttgtacttca	tctaccccca	ggggcaataa	5820
taccatgctg	tgggcctcta	atggagagct	gccgaccaga	tgtggaaaag	ctctcggctg	5880
tagtttaaaa	gctctgtgtt	gcggtctcgt	tggatgttgg	gattcctgga	acagcaagg	5940
ctggccgagt	ggctctttgc	agactaacag	tgacctccca	cctgcttttc	ccactctcag	6000
cagctggagt	gcctttgtac	acacagctac	ttcctgagct	ggccccgtgt	gaccgctcct	6060
ttcatacttg	agcgccacat	ttcattctgt	tctttgggtt	ggatggggct	ctcttcctcc	6120
tccaagagt	cagtgtccca	aattggctca	gccccgggtg	aaatatocca	gctgtgtccc	6180
cactggaaat	gcggccttca	tgggtttttca	tttgccctttt	attcttctgt	gggcaaatcc	6240
tctccacatg	gcatagccac	tgcagatggc	gccctgccac	ttcctgatgt	cccatgtatg	6300
gtgtgggtta	gagtgctggg	aggatttcaa	gaagggaaaa	gaaaaactag	ccaaaggcga	6360
tacaggcagc	gtgtgatagg	ctagaataat	aatcatctga	aagtttgggc	ctggccttgt	6420
tttgatctgt	ttcttgtttt	tattttcttc	ttacattctt	atatccattt	catactaatc	6480
acagtcaagt	ctgatttttc	tttttatttc	tgcatttgtc	ataaaataaa	gcaaattatt	6540
cccgtcttca	gaaacgatct	agactaatta	gtcgtctcac	ccaataatta	gttttttgtt	6600
tcctgtctg	tttctgtgca	ttattgttag	ttttttcccc	tctttttttt	ttaacaccat	6660
tacagattaa	aatgagccac	atttgcagtt	gatggtatct	gttttcgggg	gaagaatgga	6720
gaattgcagt	accgagcgac	ttcaaaaagca	gcaataaact	caaggataaa	ttaaggaaat	6780
tgaattagacc	acatttggaa	gcagtgttga	ggctaataat	ctgtcgctta	aggttaaaat	6840
gcaactgaga	gaggttccgg	agaatctgaa	atcggggagg	caacttacta	ggatgcgagg	6900
cattctgtgg	ctgtaaagg	ctttgctcag	tgaagattct	gttgcagcta	tggacactga	6960
caaaaggtag	tcacttgcaa	tgatgtcctc	ttctccccag	ggctgacaga	tgaagagatt	7020
gatatggcct	tccagcagtc	gggcactgct	gccgatgagc	cttcgtcctt	gggcccagcc	7080
acacaggtgg	ttcctgtcca	gccccctcac	ctcatatctc	agccatacag	taagtcaccc	7140
gtcctaaactc	ctgcttaacc	ttgattggga	ttcaggactc	tggccaaagg	gcagtgttct	7200
gtatctccca	gacttagcaa	accaggagaa	actgggagca	gcagaaagct	cttgggtttt	7260
tccaaggaa	tgtgacacac	cccagtcctc	tagacaaact	ttttaagta	tgtgacaaag	7320
gtttaagaag	agacaagggg	tcagaataaa	tgattttatt	gttgtttcag	gtattttggt	7380
tacatgcaga	aaacctgtac	aactatttat	tgattctgtt	cccatctcct	cataccagtg	7440
cttttgaatg	ttactgtttc	actaaaaaca	gcgtgacct	ctgactcatg	ggtgcattct	7500
tgtttgctca	ctgcaataac	ctgtctccca	ctctattttt	tttaagttaa	tattgttaag	7560
tttaggtcag	cctccatttc	cctccctccc	ttgtcctggc	tatactttgt	acgtttatgt	7620
agtagcggtc	tgtagggaa	tttcagggtta	aaacatgaag	ttcctttttg	aatgtttcct	7680
ttaattatac	gagatcatga	cccatgagg	gtctttcgtt	gtcttaaatg	aaagctacta	7740
taggaataaa	gtttcttcaa	acaagttata	aatgcatacc	tccaaaatgc	agccagaagc	7800
cctccttgaa	atcacttata	aaaagttaa	aaaggctaaa	attgactaca	aagttatgga	7860
aaatagctcc	attttgtttc	tttaatgaaa	ctcagcattg	ggccgggcac	gttggctcac	7920
gcctctaate	cctgcacttt	gggaggctga	ggcgggtgga	tcacctgagg	tcaggagttc	7980
gagaccagcc	cggccaacat	gatgaaaccc	tgtctctact	aaaaatacaa	aaaattagcc	8040
agatgtggtg	gcaggcgctt	gtaatccctg	ctactcagga	ggctgaggaa	ggagaattgc	8100
ttgaaccggg	gaggtggagg	ttgcagttag	ccgagatcgt	gccactgcac	tccagactgg	8160
gcaacaagag	cgaaactctg	cctcaaaaaa	acaaacaggc	aggggtgcagt	ggctcacatc	8220
tgtaatccca	acactttgag	aggccaaggc	aggcggtatc	cttgagggtca	ggagtctcag	8280
accagcctgg	ccaacgtggt	gaaaccgtgt	ctctactaaa	aatacaaaaa	attagccggg	8340
cgtggtggca	cacgcctgta	atcccagctc	cttagggggc	tgaggcagga	gaatcactta	8400
aaccagggag	gtggaagtgt	cagttagccg	agatcacgcc	gctgcaactcc	agcctagggt	8460
acagagttag	actctgtctc	aaaaaaaaata	aaataaaata	aagaaactca	atactggatc	8520
tgtgatctct	caaaatgcct	tttctataat	tgttattctc	agaagtttta	tttttgcaaa	8580
aaatgattta	aaactgttag	atatcagatt	ttaaggccgg	gcgcagtggc	tcccgctgt	8640
aatcccagca	ctttgggagg	ccgaggcggg	tggatcatga	ggtcaggagt	tcgagaccac	8700
cctgggcaac	aagagcaaaa	ctccatctca	aaaaaacaga	caggccgggc	gcggtggctc	8760
acgcctgtaa	tccagcactt	ttgggaggcc	aaggcggggc	gatcacttga	ggtcaggagt	8820
tggagaccag	cctggccaat	gtggcaaaac	cctgtctcta	ataaaaaatac	aaaaattagc	8880
tgggcattgt	ggcgggtgct	tgtaatccca	gctactcagg	aggctgaggc	aggagaaatc	8940
cttgaaccga	ggagggtggg	gttgcaatga	gctgagatca	tgccattgca	ctccagcttg	9000

ggtgacaaga	gcaagactct	gtctcaaaaa	aaaaaaaaaa	aaaaaaagt	ttagatatca	9060
gattttaaaa	ggcatatttt	aaaatgacag	attcgttttg	atccccagc	acctggtctg	9120
aagctgcctt	ctttccctca	cctcagcact	gttttcatcc	agctcagctg	cagctaggca	9180
ggtgtgatct	tggcagtaga	gccaaaaagg	ccttctcttc	tccggaactg	ctgaagggcc	9240
agccagtggg	ttggaatctg	ctgtctgtgt	tacggatctt	atttagagat	ctcctccttt	9300
ggctgtccac	agaaggctga	atgggggagg	ccagggagtg	tgtgctcaag	tgtgtcaatc	9360
tgtcagtgcc	ttgcatgggt	gacccactgc	aggttgcaga	gcttcagtgg	tgagccttgt	9420
cctgtatttg	ggctactggg	ttagcacctg	tgacttgtca	gcttggggct	cctttctcct	9480
tcttgccag	cattttttcc	aatccattgt	agttgctttg	ggtcctaagc	tgactttatg	9540
tgttcttttt	taaccaaagg	ctgagtctcc	acactgtttc	tttagttgtg	tccttggggc	9600
cagccgtgta	atgggatttg	ttgaggatag	gcagcggcag	ctggggtgca	gaattttcta	9660
agatgcacat	ctgttctgtt	ccagctgttt	ctccagtggt	cttaataacc	aacaggtctc	9720
tcggctactt	ggaaacttct	tactcagaac	aaattgttct	ggttgatcac	agagttggcc	9780
taaaacatca	tatgttcacc	tactttccat	agacacaaa	ggttaaactg	ttagtccttc	9840
tgaaagaggg	aaaagaatgg	ggtggggagg	ggcaattcag	ttattttaa	catactcatg	9900
tccagatcgc	tctgagaaaa	agcaatacac	ggtgaggtat	ttaggtagga	atatttttaa	9960
gagccttcca	gcccctaaaa	ataaaataca	cattcttaga	cacagacttc	ttcctgtctt	10020
gacactagtg	taaaaaaat	ggtaatgata	attttaaata	cctgaagttt	ttagttgtca	10080
tcattgagct	tcattcttct	cataccgtta	cattgtctct	ctcactccgg	gggtgactct	10140
acctcttcac	ttctgtactt	ttgccaagag	gtgtcaaaac	tgcttaaaaa	aaaaaaaaagc	10200
ttgattttga	ttaatataga	gaaacaagac	tttgccctgac	tgataataaa	actgataaaa	10260
gacatttgaa	ttacttgtag	cggtaattta	ttacataaaa	tatcttttat	ttgacatgcy	10320
attagttgct	ggaagcatca	ctcaatctga	ctagttttaa	catgctccaa	aatgaacccc	10380
agtaaaaaacc	agggctgtct	gctgctggca	ttatgaaata	tactaatcct	ggagtgaggg	10440
aaaaatctga	ctttaaatat	ttaaatgatt	aattgggttt	atataatttt	ttacttttct	10500
aaccccttta	attacaagca	aactcagggg	agtttctgaa	ctaggtgcac	aatctgcatg	10560
cttatcactg	aggcattgtc	tgcgtcggga	gggatttatg	gcctctattc	atgtgtgttc	10620
ctgcccattt	tacatctaga	tccccggcag	ccttttctct	cccatttctt	ggctttttac	10680
ggacattcca	tctctgagcc	caaggctaga	ccctggggtc	ccctgggccc	agccccaaac	10740
actcaggtct	cagggtaggg	tagcttttcc	aagaccaccc	cagggagccc	agtgtctctc	10800
acctttgaac	ctgctggccc	acctgtctag	tggcaggtgt	gccactgagt	gcctcttttg	10860
gcatctctgt	tctttggtga	atgtggttga	ccttgagatg	ttagcaaatg	ccagtgttgg	10920
cagagagaac	gtagagacct	gccccaaatg	taacagttca	atttctcagt	atttttatta	10980
accatctact	atacggctcag	tactataagc	tgcgagagat	ccaaaacctg	atcttttaagc	11040
atcttgctaa	gctctttggg	aaagataaga	tgaaccttta	agaaaaggat	aataatataa	11100
gatgttgtga	tttaatgcca	aaattaatta	tacagacaag	aaattctgaa	attctgaaat	11160
atagaaaaga	gaagaattaa	tgtgggctag	agtcagggaa	ggcttttgtg	aaagtgtatg	11220
gaggttggca	ccaaggggaa	gcttggtgtc	acctggtgtg	agcataaacc	agtgtctctg	11280
ggggctagaa	gaaagtgggt	acagttcagg	agaagtccag	ctgtgattcg	agagaagatt	11340
tgaaattctc	catttctcat	tttggttctt	tgtctggctt	tacatcggga	gtcagtgcac	11400
gtgtataggt	gcaggcctag	cccagtcctg	agcagaggtc	tgataaatgc	tggttgattg	11460
attcacgcca	agctgatttg	tcttcgtcct	cccagagaga	ccaagaagct	ttgagatata	11520
agcaggacca	gtgtaaattt	tgtaggataa	taatttcttc	ttagatttga	acattttccc	11580
tccactgtct	ttgataaaca	atttaaacc	cttcaaagac	tgacctagag	cttcagttgc	11640
ttcttctcaa	aataggatgt	cagcatctga	ggcgggtgaa	aggttttgaa	ccatttgatt	11700
agaaatcctg	agagagagtg	agttattcct	ctgttttatt	cttttgtagc	cctgtgtagt	11760
aacacaaact	tatctgtggg	tatcttaatt	cactgagcaa	gcattgttat	tgaatgccta	11820
ctgtgtgcca	gacccttggg	ctaaagagac	taacaagacc	tggctcgtct	ctctggttgc	11880
tcccgtctgg	taggaaagac	ggttaggcca	acatagcagt	gcctgtcagg	tggctccggg	11940
gaggacgggt	gcacagaaga	ggcgacggga	agcttcagag	agcagatgtc	taactggatg	12000
tggcggggct	cttgggtcag	tgatcagaca	ggatagacaa	gagcattcca	ggctaacaca	12060
aaagcatata	gatgtgaaac	tgatgaattt	aagaaaactc	aggttgttgg	acgtggcgcc	12120
tgtaatccca	actctttgag	aggctgagac	aggaggagca	ctttgaagct	aggagttcaa	12180
gaccagcctg	ggcaacatag	tgagatgcca	tctctgtaaa	aaaattttaa	aaacaaaact	12240
agccaggcat	ggtgggtcgt	gtacttggga	ggctgaggtg	ggaggattgc	ttgagccag	12300
gagatcgagt	ctgcagtga	ccatggttgt	acccctgcac	tccagcctgg	gctccagagc	12360
aaggccctgc	ctctaaaaaa	ccaaaaagaa	agaaaactct	agttgttcag	agtggctgga	12420
gcatgggatg	agagtcagag	gaaatggctg	gagaaaggg	ggctctgtca	gctccgacag	12480

```

aggacagcca aaagcacagt gatgttttac tttgaaatgc atcatctaata tttttttgtg 12540
ccatacgacc tttttggcca tttttattctt agattaatat taaaattatt tgtatcatct 12600
cagcaggtgc catgagggtta gttaggggag acatgggttg gggggcatca gccggaggcc 12660
attgttcttg tgcgagcctt gtagtgccca cctgtgtgtc tctactgtgt tctccatggg 12720
tgggccagca ctgcgtcctc cagggagtct tccagtgcc tccattctga cttggaggga 12780
agctccccctc agggccctag actccccacc ccgcccact gcacttaaac atttattcca 12840
gtgtctcccc tattaaactg tgagttctga ggcttaaaaa aatctagtgg cctgaggctc 12900
tgactgagca ggtgttctag aaatgcttgt ggaatggatt aacaggggtg gaaatgtgct 12960
tgagaatgga agggctatca tgtggacgag ctgcccctgg ggtcggtcgg tgatacggtc 13020
tgtgagccca gctgggtcag actgctctgg gcaagctatg gaagaagtag gggatgggac 13080
ccaccttcag gagctgctgt tcatcgtaga ggggaagccct ccattgcttg gagaaagaca 13140
gggaagacca tcccacgtca c 13161

```

<210> 82

<211> 42881

<212> DNA

<213> Homo sapiens

<400> 82

```

tgctcagagg aggcgtctgc acccatgtac ctactaatg acagggttatg ggatggagag 60
gagataatag gatcttttca tggatgtct atagcaag gtgctatgtc cctggtagct 120
tctagggggc agcagccgct tgttgttctg tctcttgctg gcggggagaa ggttgacaa 180
ttgagcaatt tgctctggac tccagctctt aaagtgggtg ctgcaggctc ccaggagtc 240
actggaatcc gcataagtaa agaaaataca atatccagga tcttttattt ctactttctc 300
tgccccctca ggtaaatcct ttatctgtgt ttctatcaac atccacaaat tcctcattgt 360
cagagttaag gcagcaaagt tcacctgctt tgaagataag agaatagaga tgtctttaag 420
agagtaaaat ctttctgtca gatcttactt gttgccaaaga gctagacatt gataaccac 480
tcaaataatg ttttagaggtt ttgaaacttt ccccataggg cacgtgtctt taattctgtt 540
gggaatacca ctgtcatatg gttgattacc tgttcttctt gtcagcattt ccccccaacc 600
ccactccctc cccctatcca aactagtctt acagagggtt ctcttcaatt ctaaatgact 660
tatttcagaa acacatgaag gggaacattg cagatgtgcc atttttttgt tttttgttt 720
tggtttttgt ttgagacgga gtctcgctct gtcacccagg ctggagtaca gtggtgcgag 780
ctcggtctgc tgcaagctcc gcctcccgga ttcctgcat tctcctgct cagcctcccg 840
agtagctggg actacaggcg cccgccacca tgccctgcta atttttttgt attttttagta 900
gagacggggg ttcactgtgt tagccaggat ggtctcgatc tctgacctc ggcctcccaa 960
agtgtctggg ttacagcggt gagctgccgc gcccgccctt ggatgtgcca gatttttaga 1020
ttggggggccc aagactgaca tatgggcaac ttgtgccttg tcagagttag tcccagctcc 1080
ctccccccca gaagtgcacc tctactgtg cctctgaat gctcctgct gccagatctt 1140
ccagctgtgt ggctgaggca ggtgccagg aggagaaagg ctgggtgtag gcagaaccag 1200
atgggtgtag tccacacggg gaagcaaat ggccgtgaca tttcagccat gtgaggttta 1260
tttaggatta gtaagaatt ctgaccttg actccactga gggaggagcg ggtgacctag 1320
ggccactttc ttgtggcttt gcattctttc aggtttcat ctgaagatcc cagggtactg 1380
gggaaggggt ggagtttcca tccagctcca ctgcagagag tggcattcct gaaagacaaa 1440
ggcatgcctc cttttttttt tttgagacgg agtctcgctc tgtcgcccag gctagagtgc 1500
agtgggtgga tctcggctca ctgcaaacac cgctcctag gttcacgcca ttctcctgcc 1560
tcagcctccc gagtagctgg gactacaggc gcccgccgct acgtccggct aatttttttg 1620
taattttttt ttgtgttag tagagatggg gtttcacat gtcagccagg atggtctcaa 1680
tctcctgacc tcatgatccg cctgcctcga cctcccaaag tgttgggatt acaggcgtga 1740
gccaccgcgc ccggcaaagg catgcctctt aacctcacct ctccagctct ctgttgtctg 1800
aaaaatggca gttaatagaa tttgttaata aacagaagaa ataacgagaa atagtggcac 1860
atcatttgac agtaagggtg tttataattt ctgtttatca aatgattctc attattatta 1920
tttctattgg atttttgaag aattcagcct ggtccccaga gccccatttg taaggcattt 1980
tatttcttta taatatctag aaataacttc agttccagt aaatccagat ctgtggtccc 2040
atcccactcc ccagccctgg ttctctcccc ttctctctg cttgtcttct gtgacctcag 2100
cgggctccat caggtggggg tatcccttac tgaccagact ggcagagcta atgccggctg 2160
gaggaacgct ccggtgtttg tttttgagtt cctggattt ggtttaattg acaattgatt 2220
ttttaaatgt atttaaatc ttttttctta cctcttaagg attaacctgc acaaacctca 2280

```


ttttatccta	agtgtggcctt	tgggaggaag	ggaggagaaa	attgagtttc	tccagcttat	2340
tttattcttt	tacgctttat	tttccaaatg	gcttttcctg	ccgaagcagc	tttgtataat	2400
acaatgtatt	ttcgtggcca	ttacttactc	attactaact	ggtctctcct	gcttcccttt	2460
gtctgtgaac	taaatacagg	gggcctcaag	ataattggta	gctccatcac	tgaccacca	2520
attatagatc	agcaggggaag	gcagcccagg	gatgggttgt	ggttggcaca	ggctgcccac	2580
ctagaaatgt	gagttattct	ctacctgcca	ccaagttggg	cttgactaga	tcgatccttt	2640
cctaattttg	gactttggca	tctctaattg	catcacacgg	ctccctgggt	tacaggtttc	2700
agcctcattt	catccctaca	cgtgctgctg	gtgtctttct	tagttcatgc	ctccttggca	2760
tgtctacaaa	gtattaattt	gcagagggtt	tgtttgtatt	ttcctttgag	gttccctggg	2820
gcctagaatg	gttagatggc	aggctgcaga	taaataattc	tgttgaaaca	gcaggtttct	2880
gtgcattttt	gtctgggtg	tccaagttaa	ggcaagtctt	tgtgggcacc	atattaagcc	2940
ccctttttga	gcatttatct	gattttgtgt	ccagcttata	tactttgctc	tggcatggag	3000
aaggaaaagt	cccatttctt	gctaggctgc	caggcactta	tgttaagact	ttaggtgcca	3060
aagtaggaaa	ggagtccctg	tgttgtatgg	ccgtatata	tttgcatgtg	tgtttcctgg	3120
ctgtttggca	cctaggcact	ttgctaagcc	ctgtatgggt	tgggcatata	ccatattgct	3180
cagctccttg	cagaaaatag	gcactcatat	atatattgtg	aatgagttag	tgtgtgtgtc	3240
cacttatgtg	cgatggagat	gatgagccaa	ggagttggat	tgcacagttg	ctgcctggcg	3300
tctgtctagg	aacttagggg	gcaacattcc	cactgggcca	cacatatgcc	gatgttcagt	3360
ggatgactgc	tacgcaagca	acataaagag	gccattttat	gaaagggaac	atcagaggaa	3420
acattataac	tgagaccttt	atagcctttc	cattattatg	gtttaaatct	tgacagtctt	3480
tatttgcaat	gacactggga	ccagtaaaga	caatgctcac	tcccacctcc	tcgttctcca	3540
catcctgttc	cgtagctgtg	gtgcaccgat	aggcatcggt	aaatgtgcag	gcaggctggg	3600
ttgtctagaa	acagcccttt	ttgactcaga	agttggaacc	cagatgactc	accattctat	3660
ttgttttatt	gcaactgtca	tttcataaaa	tgccttgaca	gctttaaact	gtaaatgcca	3720
aagttagggt	tttgtctttt	ttattttgtt	atctcctggt	ttttctaata	ttttataatt	3780
ctattttctc	ctttcttttc	agacttattt	tctctttcat	tactgtctct	ttctctgtcc	3840
ctcccttctt	tcttgctctc	cccctttgat	gactctaatt	gcatgagtag	ttgaagtggg	3900
ttttgtctaa	atcatgggtg	gttctttcca	gctttaatgc	tatctgattg	agcgtgtctc	3960
ccctcagatt	tttgtgtagg	gtttagaaat	ggaaatgacc	atgcacatca	gagtttaaat	4020
tttcttagga	aagtctgcca	tgaactgtag	gacctataac	ttctagagat	ggagggaccc	4080
ctgacatctg	tggactatgg	actcctgact	tctgtggact	ctagaattta	tgacttctgt	4140
ggattgtggg	gcctctgact	tccatagacc	gtgggactgt	gacttctgtg	gacccaggga	4200
cctctgaatt	ccatggactg	tgagacctct	gacttctgtg	gcctgtgaga	tctctgacct	4260
ctgtggcccc	tgggacctct	gacttctgtg	gtctctggga	cctgtgacct	ctttgacttc	4320
caagtcttct	gtggactgca	ggacctcatc	aacacgtgta	ttgccagaag	agaggcttga	4380
ttgtgttaac	ctgtttctct	ccagagggtg	cacatactag	aatctctgct	cagtcttatg	4440
gcttaggtgg	gggtgtgagt	ctaaatatat	atattttttg	agacggagtc	ttgctctgtc	4500
acccaggctg	gagtgcagtg	gcataatctt	ggctcactgc	acgctccgcc	tcccgggttt	4560
acgccattct	cctgcctcag	cttcccgaat	aactgggact	acaggcgcc	gccccacgc	4620
tcggctaatt	ttggatattt	tagtagagac	agggtttcac	catgttagcc	aggatgtctc	4680
cgacctcctg	acctcgtgat	ctgccctcct	cggcctccca	aagtgtgag	attacagacg	4740
tgagccaccg	tgcttgcccc	aagtctaaat	ttttaaggac	tagagctctc	agaccaggac	4800
tttctggatc	ttttttctct	ataccaca	ctgtggcact	tgactaagtc	acctgattga	4860
tgacatgagc	attgtctggg	gttgaaacac	ctggccaggg	aaacagagac	ttctgtggat	4920
tcatccaaag	gatggcagac	agattgtgga	attttaatga	aggtgggggtg	gatccctgat	4980
gttcgcctgc	tttgaagcat	agcagaatcc	cagcattaac	ttcaggggtg	ttgggtggaa	5040
acctgcactg	gcgtcggtgg	ttatatccca	cattttgtcaa	atccttaaat	ccaactgaac	5100
taatttttaga	agtagctagt	tataatgaaa	aagaacaata	tattcagatg	cataggatcg	5160
tttttaaatg	aaatgctccc	tgttcttttc	cttctttttt	tttttaactt	ttatttttta	5220
tgatggagtc	ttgctctgtc	gccaggctgg	agtgcagtgg	cgtgatgtcg	gctcactgca	5280
acctccgcct	cacgggttca	agcgattccc	tgcctcagcc	tctgagtag	ctgggactac	5340
aggcgtgtgc	caccacgccc	ggctaatttt	ttgtattttt	agtagagatg	aggtttcatc	5400
gtgttagctg	ggatgggtctg	gatctcgtga	cctcgtgatc	cacccacctt	gggtctcccag	5460
aatgctggga	ttacaggcgt	aggccaccgt	gcccggccct	tttcttctt	ttataaaagg	5520
cctttgggtc	cttttggcct	tcagggtgag	ccatcctttg	acttatatta	gaatacat	5580
tttttctctg	atgcctccaa	tgaaggagag	tgtgagagtg	ttttctatga	tgtgagtggtg	5640
agaaaaatagc	gtgttttcac	aatagttaac	aaattgatgg	ctgtgagttt	tgaagttag	5700
ttctgtatat	acactggggg	aggattccac	atagaatgct	gtttttcacc	cacctggctg	5760

gttgtctgat	tctaacatag	ctgctatccc	tgattctaga	aatcagaaaa	ccacaggctg	5820
ttcacataat	actctaccct	tctgaggcta	aggtgggaac	aggatggtgg	cggggtttga	5880
gtcaacatgg	tctcagttcc	caccaaagac	cagtggtgtc	ccctgttcca	gccgacagct	5940
tgaacaagga	ttctaaagtt	tctggccggt	ttaattgaac	tgcagtgagg	ggtggcccca	6000
tagcctgctt	aggacatggg	taattactcc	tagggcctgg	gagccaagtg	tccctcgag	6060
gttccctctt	ggttctctac	ctaaggatat	cttccccctc	cctgggcagg	gcctctgagg	6120
aacagaagga	tcatttagtg	ctcatggcct	gctcattcct	tggcttctct	gctgagctat	6180
ccagcagggg	tgccaattct	tccatttagc	tgactattat	atagccctta	aaaggggaag	6240
gtttattttta	gctggctgct	atattgattg	ctatagggac	gtttctattt	tcactggctg	6300
ctatattgac	tgggaaaggg	aaaggggccc	tattgcccgg	agctgtcata	ttgactgtta	6360
cagaaaaagat	ctgtatttaa	gcagtaccag	tgactggga	tctcccaggc	aggatattaa	6420
tgctaattca	tccgctcacc	ccctgctgtg	agtgttattt	gtttaaatct	gtagattccc	6480
acagcgcgtt	tatatctcca	ctagagttag	ctccgctccc	tgtaattatt	taacattata	6540
tgctgatata	aattgttaaca	gttaagaagt	ggtaatgagt	agccaaaaaa	gaaaaaaaga	6600
agaaagaaaa	gaaggaaata	gaaaaaaagg	aaaaaatgta	taaaataatc	tatgcctctg	6660
tgtgtgtgtg	tgtgtgtgtg	tgtgtgtgtg	tgtgtgtgtg	tggtgttaga	aacggcagag	6720
tcaccttcta	aaacagcagt	gagaaacttc	tgctatcctt	tctcccagtt	caggttgatt	6780
tgtacggtgc	tgctcagccc	acgtattgtg	catctgtatg	tgtgtatgtg	cgagcgctg	6840
tgtacgcacg	tggtcgtcac	ccgccagaaa	gatgccatag	tgagggtgtg	tatactgtgt	6900
tgtttgtgca	cgtgtgtaac	aataacagct	gtttgttcaa	tgtcctggca	ggaaattggt	6960
ctattagcga	ttcaccttct	tggtgagtag	ctaatacctt	attttgttca	aggttccacg	7020
ttcacacagg	aactttgggc	ctaagacgca	actcaaggga	aagccattgg	ggaatgtcta	7080
gttgggattg	aactaatagg	ccattgggtg	tactgtcgc	tctactggct	ataggagaaa	7140
gaggggttat	ctgctgggga	aactggattt	caaaagaaag	aagtttttct	gcttgagttg	7200
gaggtgttgt	ctctttgaga	tgtttgtctc	tcatttggag	attcctttta	aaaagttagt	7260
gtttgcttgt	ttttgctaca	ccaagcttct	ggcattttta	ttgttcttga	aaattgtgta	7320
ctgattgcca	tctgttctgc	tatcacctgc	agtgcattca	gatgagaact	tctgtgtgca	7380
gaaaactgtc	ccccttaaaa	gcctgggtaa	caaggagagc	tgatttgggc	aagaacttga	7440
aaaaggaggg	agaaaatctc	cttggggcaa	tgcttgccac	tcccctgccg	cctgccccctg	7500
tgtaggtggg	aagagagcgc	agagggagag	ccaggctgct	gcctgggtcac	agaagagtgg	7560
gctccgtcct	ccagcgggct	ctccagcagc	atggatctgt	gccaggcttc	accacaattc	7620
atactgtgtc	agtttaataa	atgcactact	taaattatga	aattacaaaa	gaaaaaagag	7680
aatgcactta	tccagactct	taatacatta	aaaataaggc	attaaaaactc	tgactttttt	7740
ttttttcttc	cagaatcaat	aatgaacagg	aagggttgta	gacattaaca	gtcatggaca	7800
ttcaaactct	tatacataaa	ttatcttaga	aaaatgcaca	taagacttga	ataatgtaaa	7860
tacattaatg	catttaataa	tttaaacatt	aaagcgcaag	caggaatttg	aggccgaggc	7920
tgttctgagg	taagggattg	gtcctagaac	tcgtgtgtcc	caggatcgat	gggtgatttc	7980
cccttgagac	accttggaag	gagagtgcct	ggccggcctt	tgtggccgag	gatccctgga	8040
catttctgat	ctcagctgcc	tcccagcctc	ttatttttgt	gtatcctgag	cttcgtttctc	8100
agtttcatgt	tgttactctc	tgtgttctta	attgtttgtt	agaaaaactaa	atgtttccac	8160
ttcatagaac	aataaaacttt	gagaatgtct	tggttgaaaa	accaaaccac	agtaaaaaat	8220
ccttcacccg	gctctggctg	cttgtctgct	tgtgatttga	gaaaaaggaa	gtggctgctc	8280
cttgtgatca	gcctgtcatg	tctcagcctg	gaactccact	gtgtgctgtg	gtcaggggat	8340
ccaggttgtg	acatgctgac	agatttgaag	actggatcta	atgggagagc	agaaacgata	8400
tcttatatta	gcctctgtgt	gttgggcata	acgatggcag	gtagccatgc	caggaaacaa	8460
gacaggtgcc	atggagttag	actcagtggg	ctgtgatcat	accttacttt	gatttgaggg	8520
tttaaccatt	gggtagactg	atgctactgt	tttttccctt	ttcttccaaa	attgtatttg	8580
caatagcaga	aagtcactgg	aaactccttt	tctggcagaa	taccgaatga	tctaattcaa	8640
tttttgacat	ctgcaactgt	aaataccctg	ggcagaacta	agaagccagg	cctatgtgtc	8700
tttaagtttc	atttattaat	gctaattgct	ttctctggtt	gttccctagc	cctgttttat	8760
agtccaaatc	acagatgaga	aactagaaga	actgtagaaa	ctgtgttact	gagtacatag	8820
cttgagaact	ttgtctctct	ttgtagaaga	gtgtgtctat	ttggtcagta	atgcaaatgt	8880
tgtccactg	ggtttctgtg	gggacccact	aggtttgccg	tgggaccttg	agaaacggtt	8940
atcagatggc	ggtgactgaa	ccaaacctgt	tttcattatt	gccagggtccg	tgggagctct	9000
ttacaggatc	tcaaatctcc	tgccatgaac	tttacctggg	attgtcttga	tttgacccaa	9060
gcctcgtctg	tgtcggcatc	tgtgactttg	tttgcaaccc	tttctagtct	ttgttgtggc	9120
caaggacagt	ctgggtctcc	agctaaccat	ggtagcaaac	agcttctagc	tacttgagg	9180
agaatagcta	tgggttgact	tggcatctga	agcagatata	aacagattag	gctgagctgc	9240

cccagaacag	ccagaaggaa	aaccagttact	ttaaaaaactg	gtcgtcaggt	attggttttag	9300
aaagaaagta	gtttggagaa	tgggtgagga	cagcctgggtg	agtgatcccg	aggtcacggg	9360
ctgtcccttg	gatgtgctca	gattcttctc	tagacctgga	gagcaacagc	cgtgcctcac	9420
aagcccttct	ccacatgttt	tgttttaaga	tggcagagcc	tttctttgca	gttttagttc	9480
agccttggga	tgacggtcag	acctcggttt	gttcttttct	tttccagttt	tcagagccca	9540
agcctgtctc	ctctgttgct	tgtccagcct	tgaccagtga	ctgtcttcag	cctgcactct	9600
gcatttcacc	ccagcagtag	gaagaagtga	ggtcagagga	gcacgtgaac	cagggagaat	9660
cgaattctct	ttggattttg	ctggtcacac	ccagcaaagc	tgctttctct	tcccttaagt	9720
tccaagaact	gtttgatggc	cttaactgca	caattggcct	gtgccagatt	gagatgtgtt	9780
gaactgggca	gtggaggtgg	gggtgagggg	caactccctc	tcctattggg	ggcagagtgc	9840
tggctgcatc	aggcagtgat	cagataggca	ctgatcgggt	cggttcaccc	tctgatatag	9900
cccgatatga	gacttccctt	gaagagagag	gagtcaggct	cattaattaa	aggagcctgg	9960
cttgagaggg	ctgtaattat	aggtgctaga	aatctgaatt	ttaagaggtt	gtgcagctgc	10020
atthttgaaa	atgtagggag	gcaccgagaa	gtactgggtg	tgggcaagaa	tgtggctgaa	10080
ccagattttg	gaggttcagg	ttttggcaga	attccctctc	aaattcatat	ttattctttc	10140
tttccatttt	gttctttttt	ttttttctaa	atgggaagca	gaacctgtga	tttttttttt	10200
ttttaaatga	aggttacacc	ctgtgaccga	gaggctagca	ttgtcagagt	atatgggggg	10260
cagaaaggag	ttgctgtgaa	ctagaagatg	cttagttttt	gaggaaacgg	cacatctttg	10320
ggccttaggg	attcagtatt	tgaaaaaaat	ttaataattt	ctttcttgaa	atgagtgagg	10380
ggagcagggg	gcagaagccc	aatttgaaatg	cagtctaggg	aagtaagtc	caggcaaatg	10440
gtggactcta	gaacctttgt	cccaacttga	cttccccaga	agtgtctctt	cctctgtcat	10500
gcgttacttt	tccatgtgaa	ccctgagtta	caaacagaaa	atttcagacc	tttatgggaa	10560
gtcctgacct	gtgccttttc	tctctcattt	cctcagttat	ttgtagggtg	accttttggt	10620
ttgggtgctt	tttcgctctc	ctctccttaa	aaaaaaagta	tccctctttg	cttcttgtca	10680
aaaaccttta	tttcggtccc	tgactatttg	catctctgtt	aattaagcat	ggctaatttg	10740
atatgtagat	gggatgggga	gggttaaggg	ttagatgaat	agagggtctac	tccctgcctc	10800
ccccgggtgg	tgggcagggg	tgctccacag	acctgcaaga	ctgaacagct	acacacggct	10860
ggatggcaaac	ccgatgccag	ggggaacctc	ctctctgcct	cagtgggtttt	gtctccttgg	10920
ggatatttag	agcgtcatcc	cgtttcacag	actggacctt	ctgtgaaggg	ctgaaaaaat	10980
aaaatataaa	ggccagttct	ctgtgctctt	ttcttacatt	cttgtagtgt	atataattggg	11040
aaatccacgg	gtgaacctct	acactgtaga	atagaacaca	agtgtccaag	actctcactt	11100
ggtgcattta	caatatgcaa	attccaattc	caattagatt	gaaatctcta	tttagcagag	11160
tggtttttgt	aaataaataa	cttttgaaga	aggaggcctg	ctatatgtaa	taaataatata	11220
tttttccttc	agttgcctgc	atgggtgctt	ctgcgttccc	agcccttgcc	cgaaatgctg	11280
attccgaagc	atctttgggc	tctttacaga	agagatgctt	ctccttccct	tcctggcaca	11340
aggatttcat	ccttgattta	cagtgtcag	cttgttagt	ccggtgaagg	ggagagatgg	11400
tgtgaagggtc	gttatgtccg	ttttgtctc	ttggagagaa	agtgaaggag	tgtgtttctt	11460
gccgtgtgct	tgtcgtggta	gtgggtggag	tggagagggc	cccacttctg	tcaaaaggag	11520
tcgagccaaa	ctctcatcct	ctcttcttca	cctctgtata	tacacgttgt	ccaacagggg	11580
gtgaatgatt	tcaaaagcgg	aattcagaat	ttcaggaaga	gtagcacacc	accgagttag	11640
gggcctcccc	ctaaccaccc	ccttttcatc	attctccctt	cctcagccca	gccgtgacaa	11700
actgacagat	aattaacaga	tcagaccttc	ctattaggcg	tgccctgtgc	tggagctgc	11760
tctggcttta	tgacgtcctt	tagcagctct	gtgtgtgtgg	gtgggtgcctc	actaagtggc	11820
catagcagag	ggcagggagt	gctttgggaa	aagcaaacag	aatgctcttt	ggaagagaga	11880
gtgcttaaga	gggagagcgg	gggcagtaag	gtgcctggct	tgaagcacc	tggcgaaaag	11940
actcggaact	tcagggttgt	gatccggaat	accaccgcct	gtctcagtg	atgggtgcgt	12000
gggttataat	aggatgcctt	attacaaaaa	acattttgaa	ggccacttcc	caggtcaggc	12060
tatgcattag	gtgcactctt	ccttcggtgt	aacactgtgc	tggacttgca	aaattggaag	12120
tgtgcagcct	gttgtgtttc	agccttggca	ttaaatattt	ctacagagac	actgccttat	12180
gtggctttct	ctcagctacc	taacttttct	ttccctgggt	gaaagaagaa	ttcattgtga	12240
gaatattcat	ttctacttac	tagtgacttt	taaaaactac	ttttctttgt	ttttggacac	12300
agggaacttg	tgtgctgctc	aggctggagt	gcagtggtga	aacacggctt	actgcacctt	12360
tcaccttccg	gccgaagtga	tcctcccgcc	tcgacctcca	tgtagctggg	accatagatg	12420
tgtgccacca	cacccagctc	atttgaaatt	tttggtgttg	ttgttgaaca	gaagtgggtga	12480
gagtaaaata	aaaataaatt	aaataaataa	tatgtttttg	tagtgacagg	gtctcacttt	12540
gttgcccagg	ctgggtctca	aattcctggg	ctcaggcgat	cctctcactt	cagctctcca	12600
cagtgtctgg	attacaggca	tgagctgttg	tgccctggct	tcttctctct	tttttttttt	12660
tttttttttt	ttttttttgt	ttttttaact	agagacaagg	tctcactctg	tcaccccagg	12720

ctggagtgc	gtgctgcggt	cataggtcac	tgcagcctca	accttctgag	ctcaagcgat	12780
cctcctgccc	cagcctccca	agtagctagg	accacaggca	tatgccaca	tgcccagcta	12840
attttttaaa	tttttgaaga	gacaggattt	cactgtgttg	tctaggctgg	tctcaaaatc	12900
ttggcctcaa	gtgacccctc	caccttggcc	tcccagagt	ctggattata	gtcatgaacc	12960
accatggccg	gccctgaaaa	ctacttttct	acttccctta	tggtagccac	ccttctcatc	13020
ttcatgattt	gaatattaac	ataaagataa	atttagcaac	atgtaggggc	tacacgtagg	13080
ctcaggctct	taggcctggc	atgttggagc	agaaagaaac	acctaattgc	atcaaaacca	13140
ctctaagttc	atgtatgtgg	agcccatcaa	gctgaaagca	tccagacagc	atctgctgtt	13200
atcaaatac	tcgtgaatcc	agctaattaa	aatagagctt	catttttctg	aaccattgtt	13260
tggcaggaat	tcgaaacggg	tctaacccaa	ttcttgcag	tttatgagcc	tttattatat	13320
cagaggtagt	tttctgtaaa	tgtacagggt	agcgttaaat	gaattgatcc	acacagtatc	13380
actgtagacg	cactatggac	ttgctaataa	tttctcttcc	agctttctgg	tttccagaca	13440
tactcttgaa	agctttatct	tctctttttc	tatcctctgc	tctttgccc	tgtctttttt	13500
tttttttttt	tttaacattt	gaacttttct	tttacttttt	aatcttcttt	tttcttttga	13560
aacaggaaaa	ctatccccct	aaagaagttt	tcttttccat	ttctcttttt	cttctctctt	13620
tctctgtttt	gtttttcttc	tagtggataa	gattttgtct	ttcttctctt	atttcttgct	13680
gttttctatt	ctctcttttt	cttttctttt	tctctcttat	cttttctccc	ttttataact	13740
tctcccatct	cttttctcta	accttctctt	tctctttttt	ctcttctttt	tatctctctc	13800
cattttccct	aataaaatat	ccttataact	ttgtctccac	atgcaaatac	tgactaggga	13860
agatgggggt	gcccgtggag	gcagagctat	ctggctgctc	taagatgatg	tcagctgagt	13920
ttacttctct	gaatttgctt	tcagtcttta	ttttagggtt	taaaaagatt	tttcaagcca	13980
catctactct	actttatagt	ctgtaatcct	actttgaaga	tgaaaagtgt	tacataaatg	14040
ctaactaatt	attccttata	ccactttgtg	agtctctaag	cagtattagt	tccagtttac	14100
agatgaggaa	gcaggaacag	gaaaggtaag	tagctctgaa	agttactgaa	gaagttgggtg	14160
actgagttag	aattaaacct	ggctcatctt	tggctttgct	ttttgattac	caccttatgg	14220
gtgttgactt	ttttccccc	taagaatcat	acatatttaa	ggtgaggttg	agtgaatacc	14280
atcccccttg	cccccttcta	ttatataact	ttaaacctct	gaagtttcat	ttgtagtctt	14340
tagatgttaa	atgaatttct	aggtaattcc	tgggaaagaa	ggatgctgaa	ccacttgggtg	14400
gctggtaaaa	accctgtcta	ttagtcttaa	agcagagtgc	tacttttctc	tttccaacag	14460
cttccagtaa	gtgggcccac	gtcacacact	ggccccagtg	atcgtagcgt	tgtaggaagc	14520
gctgccatat	ttgattgaat	ttagccattc	tggaatgacg	tgttcatgaa	gtcggctctt	14580
gcattaccgt	ggcctttatt	attgctaatt	cattctgaca	ttacaggtgt	agccttggct	14640
ctccagaaaa	gggcaagggt	gctcttacca	aacgaaagag	cagaatttat	gaaactgtta	14700
cacagtgagg	ccagtgttca	cctttagtta	ctaagcagag	taagggaat	aaatgctttt	14760
atagaaaaaga	tagccagtga	cagcagtcta	tctgtattcc	tcaccagca	ctgtttcaaa	14820
aagtggatca	attaatattg	ttgccagaca	gagaacgagg	accaatgggt	aggaggttca	14880
ggaaagtaga	tttcaactca	gtttaaagag	gcactcctga	aaatgagctg	acagtctctt	14940
aaggaggtag	tttccctgct	cattatgagc	attcaagagg	aggcttctctg	atcatttgtc	15000
aggggtgttg	gagaggggag	tccctaggtc	atgggtggga	ccagatgggt	caagatctct	15060
tttggcttgt	ttcctcatct	tagattgcta	agcacaaaac	agcatctttc	ctgcttctat	15120
tttgacttta	caagtggctg	gtgtaccgtg	aggacctgtg	aatgctcagt	agctattcat	15180
tatttaactct	ctggcttctt	gcttcttaat	ctaacatgaa	tcaaagctgt	tcttgttcaa	15240
ttcaggaaaa	ccaccatctc	tggcacctcc	tagaatgagg	cattctggat	agttacgttt	15300
tctggatggt	catcaggagc	catttgaaag	cagaacaaac	aaaacacttt	aaaacttttg	15360
gctgggaatt	atgtaaaatg	gattacatac	tttcttgctt	tattaagctg	aatatctgga	15420
atataattta	atcgtgatga	ctcagtattg	tcaattttaga	tgaacgtggt	tatatggtgt	15480
tataagcata	gctgtgtttt	caaaacctgt	tgaatatatag	atgtgttgta	tatttgcccc	15540
tacttgaaat	gactccaccg	attctaaatg	acccagact	aataagcttt	ttgaattttt	15600
ttgtttgctt	ttcatggatg	tttctctctt	ggcatttgct	gttgggcttt	tttttgcgtg	15660
cacatctttg	tttgggtgtt	ctgtactagc	tggctccttc	ctctctgttc	ttatttgcag	15720
cttttatctt	ctatgatttg	gataccagat	aactaagctt	gtatataaaa	taaatagtaa	15780
gtagcgtgag	taaagcttcg	cagcgtataa	aatatatgga	atttgtaata	tcttttttgg	15840
ctgcccgtat	ttcttctgct	attccctgtc	tctccttctt	ctgttgggtt	tctccttttt	15900
ttgaattggg	tgtcagcttg	gagagatgaa	atctggaaag	actgggtctt	gtccttgacc	15960
taagcccata	tctctggccc	aggtatcagc	ggctgcctca	tggaaatcaac	ttagaaatta	16020
taaaattggc	caggtagggg	gtcctgaagg	tcatctgttt	aaccccttat	tttatagcag	16080
tgaaggaaatc	tgaggcactg	agtggggaca	taagaggcca	ggttcatgac	agtatttgtg	16140
taaggtaaaa	aaaaaaaaaa	atctttagtg	aaaattctct	gctggcttat	cagcaagttc	16200

agaattaaag	tacataaacc	aaaaaaaggc	ttctgtttgt	ggcagcgttt	ggctgtgttt	16260
gcactcaaga	ctattatcga	tattcttagga	gaagctttta	tccttttcatt	caaacttaca	16320
agaaatgctg	tttcttttta	gttaaaaaaa	aaaaaaaaaa	aaatccaaga	gagcatttga	16380
tttgaggaac	caaaagtcta	gaaaatgtat	ccgggagtc	tcgtcaattt	ggggcataat	16440
gaaatataaa	aaatactcaa	taaaagctcc	tttattactt	taactgttta	aatgtggagt	16500
ttttagccat	cagggttaatg	ttttggtatc	atTTTTttat	ttgattgtga	gcacttttcc	16560
aggtagctct	gccactcgag	cgctaatacag	attccacacag	ataaatgggtg	ctagctgcag	16620
cctgacatca	ctgcgttttt	gcttcaacat	tattttattt	tatttgggtt	tcctgtaaaa	16680
gttaataaact	ccatgtccat	gtgttttaaac	aggcaagaag	agagagagag	aaaggacagt	16740
gagcagaaaa	ggatgagggg	tgtttcagga	agcttgtgca	aaattgagga	aatttaggga	16800
tttttgtaat	ttccagggtat	cttacccttat	gaacagtatg	tgaagaacca	agaagggtac	16860
aaagcaagat	ggtaattcat	aatccttcag	ataacaaaaa	gtgaacttct	ctgtttctca	16920
gacagagctg	ggaagaattt	gaaaggagtt	accattgatt	taaaggagga	agatgctcaa	16980
taaactgatt	tgcttaatgg	tgagaattgt	gtaaattttg	tgttattcat	aagtaaatta	17040
catgctcatc	tggcttctcc	tagatgacca	agatggggaa	gggcatcaga	tataggggcat	17100
aaagaccctc	cttttcatct	tccattattt	agtaggacac	agtgactcct	ggccaagatg	17160
gctctgggtg	tcagttagg	tttgtggat	catttgtttg	attgattgat	tgattgtgtg	17220
atTTTTtagag	acggggtctc	actctgtcac	ccaggctaga	gtgaagcagt	acaatcatag	17280
ctcagtgtaa	cctcaaactc	ctgagctcaa	gccatcctcc	cacctagctc	cccaagtagc	17340
tggagcgcca	ctacgccaag	ctatttataaa	aaaacaaatt	tttttttgaa	acaatggagt	17400
ctcgttatgt	tgcccagget	ggccccgaac	tcttggcctc	cagccatcct	cctgcctcag	17460
cctcccaaaag	tgctgaatta	taggcgtggg	ccaccatgcc	cggctggatc	atTTattttt	17520
taaagtgtgt	gttgttttat	tggtagctgt	cgctggcta	aatagggatg	tttatgggat	17580
ttagtgaag	gttgcgtgat	ggttcaaagc	catgaggact	acctttgggt	tcttcttgtg	17640
tgtgatggat	ttcctcactg	agctgaaaat	ttcttaattg	gggtttatca	gagaaggcaa	17700
ctggactgat	gtctcttgat	tcagtttctc	ttccaaactt	gtaccttgat	actaaagaca	17760
gtccgtgggt	acaactctgat	gatggctgtg	ataatcagtt	tcacagccct	tatgtcatta	17820
cttctgaaag	atgtgtaaaa	aaaaaaaaaag	acattttcct	catctgcgtc	agcgggtatag	17880
cttgtattgc	tttctgtgtg	ttcacacttt	gtgttgatat	gttacttgtg	aagtcgtcta	17940
caagggtgtg	acctgtatta	gataccgctt	ttttagaaaa	tggaaacctga	ccaccaactt	18000
gtccctgtgg	agagcccatt	tctggccact	ctctggggct	ggtgtgcttg	gtgaggaaagt	18060
tgactttcct	ctgacagtag	ctgattgtat	atgactgttt	gaatagtaag	tttccaatcc	18120
ttgtcattct	actgtcaatt	tgaagatttt	tttttcttca	aaatggagtg	tcactctgtc	18180
accagggctg	gagtgtcaatg	gcgtgggtctc	acctcactgc	aacctccgcc	tcctgggttc	18240
aagcgattct	ctcatttcag	cttcccaggt	agctgggact	gcaggcacat	gccaccacac	18300
ccggctaatt	tttgtatttt	tagtatagat	ggggtttcac	taaattggcc	aggctgatct	18360
cgaactcttg	acctgtgtgat	ccgcccgcct	tggcccccta	aagtgttgag	gttgcaggcg	18420
tgagccactg	cgcttggtg	atTTTTtttt	tttttgagac	agagtctcat	tgtgtcttcc	18480
aggctggagt	gcagtgggtg	gatcttggct	cactgcaacc	tctgtctccc	aggttcaagc	18540
gattctccta	cctcgacctc	cctagtagct	gggactatag	gtgcgtgctg	ccacaccggg	18600
ctaatttttg	tatttttagt	agagacgggt	ttcacctgtg	tagccaggat	ggtctcgatc	18660
tcttgacctc	gtgatccgcc	cgctcagcc	tcccaaagtg	ctgggattac	aggcgtgagc	18720
cactgcgccc	ggctgatttt	tttttttttt	tttttgagac	agagtctgtc	tctgttgcct	18780
aggctggagt	gcagtggcgt	gatagctcgc	tgcagcctcc	acctcctggg	ttcaagtgat	18840
tctctgcct	tagcttcccc	agtaactggg	attacaagtg	tgaaccacca	cgcccagcta	18900
agttttgtat	ttttattaca	gacgggtgtt	caccatgttg	gtcaggctgg	tctcaaaactc	18960
ctgatctcag	gtcatctgcc	caccttggcc	tcccaaagtg	caatttgaag	atTTTTtaagt	19020
ctgccagttg	actgcattat	gaattacact	tttggaaacc	atactttagt	ttttttgttt	19080
aggccataaa	agaatcaaag	gtaatacagg	ttgagtattc	ttgatcccaa	atgcttggga	19140
ccaaaagtgt	tggatttttg	atTTTTttcag	atTTttggaat	atgtacataa	tacttactgg	19200
ttgagcatct	caaatctgaa	aatcccaa	ccgaaatgct	ccagttagca	tttcttttga	19260
gcatgacctt	tgactgtcat	gttggcactc	aaaaagttct	ggatttttga	gcatttttga	19320
ttttggattt	tcagattagg	gatgtctatc	ctgtagcagg	atctaggact	tgggtggcatc	19380
ccgttagtag	cagatcttga	ttgttgactt	tcttctgttt	tctgggtgggt	ctaaagaaaa	19440
ttcttaggct	ggacacgggtg	gcccacacct	gtaaatccca	gcactttcgg	aggctgaggt	19500
gggcagatca	cttgagggtta	ggagttcgag	acccgcctgg	ccaacatggt	gaaaccttgt	19560
ctctactaaa	aatagaaaaa	ttagccaagc	gtggctggcat	tgccctgtag	tcccagctac	19620
tcaggaggct	gagacaggag	aatcgcttga	accaggagg	cagagggtgc	agtccaaga	19680

ttgtaccact	ttactccagc	ctgggtgata	gagtggagact	ctgtctcaaa	aaaaaaaaa	19740
aaaagaaaat	ttgtgggcca	ggcatgggtg	ctcacgcctg	taatcccaca	ctttgggagg	19800
ccgaaactgg	cagatcacga	gatcaggaga	ttgagaccat	ccttgccaac	atgggtgaaac	19860
cctgtctcta	ctaaaaatac	aaaaattagc	tgggtgtggt	ggcatgtgcc	tatagtccca	19920
gctactcggg	aggctgaggg	acaagaattg	cttgaacccg	ggagggtggag	tttgagtgga	19980
gccgagatca	cgccactgca	ctccagcctg	gtgacagagc	gagactctgt	ctcaaaaaaa	20040
aaaaaaaaag	aaaaaatttg	tttctaaatt	tgaactcatt	ctaggctatg	agtagttctt	20100
tttttttgta	ttcaaattta	tttttttagca	ttaggtcatt	ctctaatttt	cttatggggg	20160
gtttggtaga	attgcctttt	atatttttat	ttttttgttt	gtttgtttcc	aagacagagt	20220
ctcactctgt	caccagggct	ggagtgcagt	ggtgcaatct	tggttcattg	caacctctgc	20280
ctcccagggt	caagtaattc	tcgtgcctca	gccaccctag	tagctaagac	tatgcaccac	20340
cacacctggc	taatttttgt	atttttttta	gtggagatgg	ggtttcgcca	tgttggccag	20400
gctcttctca	aactcctggc	ctcaactggg	ccactcgcct	cggcctccca	aagtgttggg	20460
attacaagcg	tgagccactg	tgcttggcct	agaagtgcct	tttaaagact	ccttgaagggt	20520
tttagttttg	tgcagagtgt	gggttgatgg	tacacataat	tttttgggtc	agagcttatc	20580
ttcctttgaa	ttcaggagcc	catcttcttg	cccttagggc	aggtggccct	aagcccttga	20640
gggggatcct	gccttgccac	agctgtggtg	cacctattca	gtagctgacc	cccagtgatg	20700
ccttaatgtt	tgagggttgc	attatccatg	acacaacctt	tcttcgtctc	cttctaatc	20760
atccgcagct	tcaatagtgc	atgactagag	agcttcacca	atctccatct	ggccgaactt	20820
caaaagaagt	ggaagctgaa	gcagggtttc	atctgctgag	catctgaagc	tgctggaggt	20880
taggagaaat	acctttcaga	aagcatgaaa	ttcaaccagt	ggtggagaga	aagagactag	20940
gaaatagagg	cagtgttatc	attagggagg	tgtctggggc	tgtgtgccac	atatttttag	21000
tggtggagtc	acccgccacc	gtcactgtgt	gagctcacag	ttctctcagg	gagcatcttg	21060
gacactgagt	cattacattc	cttttagagt	atttaactca	acagcttgac	accttcatta	21120
attttacaac	acgaagcctg	ggtgctctct	gcttctctct	taacagtgca	gggaaattag	21180
aggaatatgt	aaaatatata	accaggggat	actggaagaa	ggagcagtca	aggagctgtt	21240
gaaaaacatc	atgttaagga	attgaactac	ttgtctttcc	ttggatatct	ttgggatcga	21300
gcacccagct	cttgccactc	gtctctggca	cataaacctt	ttatttcogt	tcctggcacg	21360
ctggccaaac	ctccaacttg	cagccagctc	gtttgccttc	tctgctgagg	tcactgctac	21420
cgtgatccgt	gtataatggc	attttctctc	tcttttcagt	atgaaggcta	ttacagtttc	21480
ttctctaaac	aggacttcaa	acaatttgct	gccagttgca	tttcaaaggc	agggaaaagg	21540
caaatgtcat	ccttttttcc	tcccctcttt	gggtaactgc	tttgttgggt	gcatcaaaaa	21600
tttagggggc	tgctatctaa	attcaggtgg	ggatgcgtgg	ggacaaggca	tttaaatgtg	21660
cttttctttc	tccttgaaag	agaaaaacgc	ttttcttctc	caacctttcc	taaaaaggaa	21720
ctttgatctt	cccaacccac	aagcaagggt	ttcatttctt	ccaggccggc	gtgtactcca	21780
cagctccttc	tgtggcgtgg	tgaccgtcac	ccgctgcac	agcagctctg	cttttcaagc	21840
tgtgctcctc	cactgcacca	gcgccttttg	ggctggaagt	tggcaccacg	agtcctcggc	21900
tggacacgga	cacctctcca	aagtcaccct	tacgtcccta	agatcactgt	cccttgacat	21960
taaatagtgc	gtggtgggtt	aagatgcttt	ttatttcaat	atacatttct	ggaagaacta	22020
ctttaatcaa	ataacaaaac	aatgacattc	tggcaagcag	ttcatgcaat	attttttaact	22080
aaggccaagg	gaaaaaaaat	aaatggcgag	gatatttcac	tttgaaagggt	agttttttgtg	22140
catgtgaagt	tgccactttt	cataaaggct	tttactacat	atatcaatga	gttttaagag	22200
agactagggt	caataatgca	tgcttttagaa	ttocctaaat	acagattttac	acaatagcct	22260
taaaatatat	tctgttctat	catgtcaact	cctgtgcact	tctaccagcg	gaattttatt	22320
tctttaatgt	gaaaaacaaa	aggacagagg	aaagtaaggt	aaaacaaagg	aaattagggc	22380
ccacaagctt	aattagtata	gtgttgtaac	ccaaatcaac	aatgggaagg	acacagtga	22440
aaaaccaggg	aaattccaag	tcgaaagaga	ggctctttcc	tttaactcct	tgagtggccag	22500
ggcacttgct	agccagctcc	ttaccaggtg	gcaggagggt	acctgagtac	aactcactgt	22560
ctttatttgt	gaacttcctg	gcttttggtg	actttccctt	ctcctttcct	cccttaatgt	22620
acatgaaaca	tacctttgtg	tgtgcgttaa	ttatagataa	atgggctaaa	attgctctct	22680
ggtttttgtaa	ccctcagaga	aggggaaaga	gtacaaaaaa	aattcctgtc	actgtcatct	22740
gttcattttt	aatgagcaat	ttttaaaaat	tgaaaaataa	agaggaaaaat	gaatagggtg	22800
tgaaccagcc	cgtgatatgt	aaatgccaac	tagtaattac	ctaaaacctc	aattttcatt	22860
ctgtttcatc	ttgcaaaaaca	tttcattttc	cctgagtga	aacacttaat	ttgggctgtg	22920
cgagtttagcg	gagcgggcgc	cccggcctgc	gcctccggcg	gctccggcta	gggggcactt	22980
ttggtctgcg	cttctgcccgc	ctgcccggctc	gcctccctca	aggttattcc	cctcttgcca	23040
ttccagtggg	tttactccga	gtgtgcaggc	cctcccccct	tactcccact	agtcgtgttt	23100
cggggagcct	gttctctcct	gtccttgacg	aggcgcgat	tgaattttgg	ctgaccgagc	23160

cttccctctgc	atattaactt	tcccctctta	cctggctatt	gggcccttgg	cgccctgag	23220
ttgcagtcac	actctgagag	cagctttctg	gaagctttct	ttctcccttt	gaggttgac	23280
acagaactgc	ctctagtttt	tgtttattcc	tgtctgtttt	ttagtctttc	ttttcatttt	23340
ggcagctggg	gaaatcctgg	attgaggctc	acacacattt	gccctcctgc	cacactgaga	23400
atgacaattc	cgacgcttgc	tttcttttgc	atacttgtag	atttttcttc	tactctgggt	23460
taggatattg	caccttttgg	atatgttcgt	ggaatgtggc	ttgtgggtgc	cgctgcttcc	23520
ttccctcccc	agcctgttcc	ctagctagaa	agagagcgtg	tagacttgag	aaagaacagg	23580
gagcccggca	ttgtgaatgg	tagatcagag	aggagcctgc	atgtagaaaa	ccagaattat	23640
gttgtcctag	gaccttggat	ccgagagtgc	tctgcctgga	atctcaagga	acacggcctc	23700
tttagtgaga	tatatagctt	cataattagc	ccgttgcttt	ttttcacgag	tgctagcatc	23760
agcgttctac	gatgtgttcc	tctgattaac	agctgctttg	caactatttc	cctgtgccgc	23820
cgatgaccat	atttgtcaag	gaactcctga	cagagtactg	atttcttact	aaaatgcagc	23880
atttctgttt	gaagagggtt	ctctcattct	tggcagtgcc	tggcttttta	agtcagtcct	23940
tggtaaaaact	cgagtgggct	ttgggtctaac	gcttggttaac	aggattctgg	gtatctactt	24000
tagtgatatga	acgtaggaac	ctttcacagg	caatttaatc	ttctgagcag	cgcacgtgga	24060
gcagtgcggc	gctggaatgg	ggtttcgggc	ccgtagatta	tattgggtcat	tttcttttgc	24120
cctctagttg	tgatctctgt	gggttaaaag	cacttggttt	tgggtgttag	tgctattaat	24180
ttttgaatat	ttttaatatt	ttaagatggc	taatgaatgc	tcacatctta	ggagatagat	24240
gtgtatgtag	tacacaggag	tgctggaatt	gggtggcattc	caaataagtg	tcactggaga	24300
caatgcatca	ggttttacatg	tcaggtgcaa	agtgtctagg	ctccctcaaa	ccccagggtc	24360
attattaggg	aggctctgtc	ctcctgtccc	cctcgtgcag	aaaataaagt	gtgtattctg	24420
aagattacaa	tgtgcaggct	ttttgtagga	gagtggaata	cacataggaa	gcactctctt	24480
gggtgaggac	gtcaggaacc	tcagttcttc	tcactgggga	ttacttacc	tacacaatgc	24540
atttaacagc	acatagttca	tagtagataa	cccctgagta	tactgtattc	cattgattta	24600
tacagttaca	aatcctgctc	tctcaaatac	aaatctctct	caattggcca	gtcatcttag	24660
atctaaaggt	gtttttcaac	ctgaagtccc	ccccgccttt	ttccaagttg	ctgacagtga	24720
ctccagtgac	tccggtgtaa	ccattgttat	gagactgcaa	agacaagaat	ttactcctct	24780
tccttgccac	tcagttttat	ctctaagtg	cacatagtg	aaattatgaa	atttccccaa	24840
aatttgtgaa	ttggtgggtg	cagggttggt	ttattttgct	ttgggtggag	aaggggacag	24900
aaggtagggg	cagagggatg	gggggagggg	agaaactggg	ctgttttctt	tggagtgtgt	24960
tgtctttatt	ttgattaaac	tagctattgg	taattcgagg	tgcaactcatt	aagaactcag	25020
tgcaagagga	agggaaagga	acgctgattc	catattttatc	acaggctcac	cagcaagcag	25080
cttcgacggc	ggcatcagca	gcttagtgcc	agaattctcc	ctggcttgct	gcactcccac	25140
aacatgtgca	ataaagttcc	tgtctccgtt	ttacatcttt	gacattgagg	cggagatttt	25200
ggcctgaatt	tatgtaattt	agttgggcac	aaatataacc	catgaatagt	cacattcatc	25260
ttctaattag	aaaatcaaat	gataatacag	gacaggctgc	aggcacccca	tcacgaatc	25320
caacaaaagc	gtgttgtgtg	tggtgggcct	ctgcagagga	aagtcagttg	aattgcttca	25380
tgaatattaat	gaaaagtgcc	caacaatagg	tgggtgaaag	gcacaaaaccg	agtgcctgt	25440
cagttatttta	gtgtgtgaag	atgttagcat	tatgggtaaa	gagttttgca	aaatcttctc	25500
ccatcgatgt	atgaatcatg	gggctataaa	attctagatt	ggacagggtcc	ttcccccat	25560
tttgtagtgc	cagttccttg	cggggaggga	gggagaagag	tcaagagtaa	ctgaagaaat	25620
aattagttaa	aagaggagag	aggttttcat	atgttcacac	ttacatgtag	ccacttctca	25680
gggtgtcttt	cttattcagc	acattaggtt	ggggctattt	gagtgtctta	tatttttgca	25740
tctagtgtag	tgatgtctat	gctgttaaat	atgtgatttg	cctgtcgcct	gcattttcag	25800
acaaagatca	agaggacat	aaacaagccc	caaataact	ttatgtaggt	gtttggcagt	25860
attattttat	atgacttgaa	attagtgaat	ggaaacttta	aaagaaattg	ttcatatttt	25920
tgcaagtttg	aagtgtgccg	ggactttgtc	aaattcccgt	taaaataaat	acgtcaattt	25980
catctccctt	ccaaattcat	ttatcttgct	tttttaaaag	gtgttttcta	ctttacctga	26040
tgtttaaat	ggattcgctc	gtttatgctg	ttctttgcta	tatccccac	gttcttctta	26100
aatgaattac	taatgacaga	gcactccatc	attccctctc	tgcagccact	ttaaggaaaag	26160
catggtgatc	taaacctttt	aacctattaa	agatgatttt	tccaattga	atcagaccga	26220
ccacaggtgt	aataaactaa	catttaaaact	acacctgcta	ttatgtattt	ttaagccatt	26280
atgcatgttg	gatagatgat	aattcatgtt	tattgcattg	tccgatggat	ccgttttgcc	26340
tacactaggg	tgattaatgt	atttaaaagaa	ataagagatg	cattttttta	aaaaaaattg	26400
atggaatgcg	ccaagcactg	cattgagtgc	accattaaac	ccatcagaac	tttgctctct	26460
gaccagaaat	gcataatcca	aggactatat	taaaaaagca	agggtgaaacc	tgtgtgttcc	26520
agtgggtggga	ttctgttttc	tttctctgtc	ttggaaggat	gaaggaaagc	gaaggaaagc	26580
tttctgtttc	tatgggttaa	tgataggagc	tgtactacta	gcactctctg	cttaagacct	26640

gttcatccac	atttccgctg	acacctggtg	cacgtgtcac	acacagcatg	cagactaccg	26700
catgatacga	gtagtgtaat	tttcttgtgt	gttgaagggtg	tatttttttc	tccagggtgaa	26760
gaacaactat	ccccacgcca	tctgagctgt	gcagactggc	gctgacctg	ggggccagtg	26820
actgggtacc	tgttcattct	ctttccagag	caggggcctc	gcttccgttg	gtttttctgc	26880
ttgtctctca	tttctcctct	ctccttttcc	ccctctctcc	tgttatagct	ccttgtgtac	26940
tgttgccttc	ttctccccac	ctttcctacc	tctacccatc	cccttttctt	ttttctcttt	27000
tttcttctct	cccttctcct	atctcttcat	taaaatgcat	cagtgttgta	gatgtttggt	27060
agatttctct	tgattttggg	gtgacctgag	gcatctgggt	tgagtatgcc	gtttggggtc	27120
tctagaatct	cgagcattca	tttttcttta	gtccagaact	ggtctattac	tgtggttcat	27180
gacggtgggt	agtactgtcg	gcagcattgg	aggacagatg	ataatctgtg	cggagctggg	27240
cttggctgtc	aggggacact	agtatgtcct	gttgggtgaca	ggcccagacc	tgaaaagtca	27300
agatactgag	ttcatccttt	aggggaatgt	ctaggtaagc	ctccccagga	gggggtgcag	27360
ggaaaatgaa	tacaggcttt	tccctggctt	tttttctttg	gtttatcctc	atatcttttg	27420
ttccccaaaa	gtctgtctgg	tctcaggatt	acattcatat	aaaatatggg	gaaggagatg	27480
atttgtaact	tgtatttcac	ttacagtcac	agtactttct	gtttgactgc	ttcccttagt	27540
ttgaaggata	ttagaaaaact	tcccttacatc	tacgcttaga	aattttttct	ttcaacaact	27600
tatgagttaa	ctcagggcct	gttgacttta	tctgtaacat	gagaccatat	tattcctttg	27660
attttgatga	ggcgaataat	agcagtcatt	taaaacagcc	cctttcctac	ctggggcagg	27720
tgggctgttc	ccatccatag	ggctgggtgtc	tgggggtggaa	agtagacaag	ccaggcgtaa	27780
acacacactt	cgcgtgtgct	gagtgatgtg	aagggttaata	cctgcagcgg	tgccccctcc	27840
atccccctgcc	cggcttatgt	ggagatagga	agatttcatt	aaataatatt	cattaccaga	27900
ggcaggtaga	caatctgtca	atctgtcagc	ttttagccat	gaaactccaa	actttgcct	27960
ttgaagggtc	ttcagaactc	agctccattg	cagaaggggg	gccagagtga	atggcagtgg	28020
gtgttgcttc	cgacataatc	ccttccagcc	gggacgcct	caacactttg	ccaggctctg	28080
gagagagtgt	ggctctctgcc	cttcacttgc	ttgcagcgtg	gttggggagg	caggctgaac	28140
attagaagat	gggtgaatta	tgtcttcaat	tatatgggtac	acagtacagg	cactgaagaa	28200
ttgaagagaa	tagggagatc	agagatggct	tgcttattta	ggcaaggctt	cgaggaatca	28260
gaacagacta	taaaagggct	gtgctgtag	agaacgtgtg	tgtgtgtgtg	tgctgtgtga	28320
cgtgcgcgtg	gggtaacgtt	tagacagggtg	gaggcaggaa	agggaggcct	tccagaaaaga	28380
cagcatcacg	ggcacaaggg	cggcgacatg	gggtgcgcag	gccacacctg	ccggggagta	28440
tgaagaatca	gctcgaatgg	agatcaggag	gaacaggaag	gattgtcgca	ggcctgaagc	28500
tcggcagagg	gattagattt	gacagactca	gatacaggaa	gccagtgaag	acagggaaac	28560
aacatcgctt	ttcatttagg	tagattttta	gttttaagaaa	taactggtta	taaatcttgc	28620
cacaatagta	tgcttgcttc	tgtggagctg	ggaaaaaactc	ctaggatttt	taatcttgaa	28680
attcagacta	ttgaagttaa	gtttactcct	ctattttctc	tctctcacca	gattgccacg	28740
gcagtgaagt	ttctacagaa	ttcccgggtc	cgccagagcc	cacttgcaac	caggagagca	28800
tttctaaaga	agaaaaggta	aggttccaca	gggctgtgca	gcacggcctg	cagggggact	28860
ggggctgggg	cagatggaag	ccacgggtgca	aggcagggtg	tgagctgcca	ggacttctta	28920
gagctgcccc	ctcatggggc	agtggggctg	aggcgaacct	cccagtgggg	catgcaggtt	28980
tctttcctga	cgatggagcg	gcaagatgac	acgattcggg	taattaagca	cggatgactt	29040
agtccagtc	atcatggcaa	aggcagcatt	cagtagcaga	gtcggcccat	tggatgagac	29100
tgtggaggac	ttctggtttt	tggctctgctc	tgtgtcagtg	accctggctg	caggatgact	29160
agcttaggtt	aggagttcag	ctgcttcaat	agagaatgag	ggagaaagaa	atgaaggcg	29220
agggaaacga	gatgactaac	aagggtcagg	taaactcaag	cttgggggtca	gtccgattta	29280
cagattgaag	cggtaaatga	gtgggtttat	ggattttctg	taaacagggg	taaagtggac	29340
cctgacaaat	tcaatattgt	ctgaagagac	aatctattct	ggttctgttg	gaacttcagg	29400
tatttttctt	tttttgtaaa	atgaaaacta	caaagaaacc	tgacttttca	attttttata	29460
catgtaattt	tctagaaatc	taggaagtca	tttacacatc	cttatatacc	atgaggggca	29520
aaagtaagct	ttcttctctc	caaagcaaaa	ctctttttcc	ttaaggagct	ggaatgccag	29580
ccttgaaatt	ctgagttttg	agctttcagt	catttttggc	tggaaatagg	gggtgatatt	29640
tctaggtct	gctctgtgat	gtcccgtga	agggatgcag	catgaacct	tggctccttc	29700
atgcgcatc	gtcccggggc	tgcactaaca	gggtttgggc	agaagaagcc	caaacatttc	29760
accacaggca	gctgcttcgc	ggcagcccca	aggctgggtc	cctgcgacag	agttggtaag	29820
gagcactgca	cggctgtctc	ctggctgcat	tgtgccagca	ccccccccc	ccccccgcca	29880
tcattaggag	attattaaaa	tttgagtggt	gttggtgggc	ctcgccactc	cgcaagcatc	29940
atgccataaa	agagtttttc	cttgaaatat	gtgtacctat	ggggagtaat	taatcataaa	30000
agcttaggga	tttcagttct	ctcataaaag	cattgaagct	ggggaaagct	gagcctaaaa	30060
gctgagctga	ttaccggggg	taacctgaga	caaaatctat	ggttgccgag	agatccttag	30120

ctccagtata	ttgtgcaata	ttataactgc	ctgatcttct	cttccaccga	caatgaccag	30180
ttagtcctca	ttttctctca	aacgcagctg	ggtagaatt	tcatttgag	aaggtattta	30240
gagcaattta	gagacaaatg	tctctgggtg	ttgctcggca	cttccccacc	gcaggctttg	30300
ctgagcagtt	ttagtatcag	gagctccatc	taatctgttt	aattttaata	aatccctgac	30360
tgggagaggg	agtgaaaaaa	aaaagagaga	gagaaactct	ggaccaaata	atacttcttt	30420
tgagttactt	ggctaataat	tactgtagag	agaaaactgt	tttgtgcaat	tatgattcgt	30480
tgctccttta	gcaaaaaaaa	tccaactgat	caattcatcc	aagagtcatt	gtgcacccta	30540
tgccctgtcc	ctggactccc	atcaggaatt	tagcagagaa	ccgaacagac	aaaatccctg	30600
ccctcgcaga	gcttaaatcc	tagtggaggg	aaggcagacg	attaacaaat	gggaaaatga	30660
aataggtcgg	atgtcagatg	ccaagcgcca	tggatactga	tgaatgaagc	agggagccgg	30720
ggtgaggaat	gccagagtgt	gtgtgggctg	gactgtgatc	ttaaacaaca	tgaatgtcag	30780
agtgtctcta	agaggggtgg	acatgagcaa	agactggaag	gtgactgttt	attggtacag	30840
tggacataat	tcttctctga	cccctaattt	gggttagagt	ttttagaatt	ttaggcattc	30900
ggcaccttga	gatgctatcc	tgcccttcgt	cctctaaaga	gaaccatgtg	agtttatccc	30960
gtacttaaac	ctggaatctc	tgaggttaat	cacccatctc	cattatcctc	taaaatgctg	31020
cttcagtcag	taattatcca	tttccgagtt	gaatcccaat	ggagtaggtt	ctggcaggac	31080
ctttctctgg	gccagaattc	caaggtttga	tcggtgtctg	gggaagaaaa	gccccttcgc	31140
agatttaagc	ttcacttttc	aaatttcggg	ctgttccagg	gtcaggtttc	cgtgctcagc	31200
acggcctggc	accgtctccg	atggggatga	gggtgaacat	ctactgggtc	cctaacagta	31260
gttgtggcag	gaaagcaaat	tggctcgcgtg	gccgtctgga	ccaggagggg	cctgggttct	31320
ggcacccgtg	ctcttggaact	ccctgcagaa	gccttgcaat	gctgggcttg	gagcatgggc	31380
tctgggaggg	ctctcagctc	ctggagctct	ggcttttctc	agcaatgtca	cttcagggaa	31440
ttgcagtgga	gcactgactt	gaattataat	cttgactttc	ttttttttaa	taaacatctc	31500
tttctgaaa	aggcaaatcc	aattttgttt	ttcttttaat	attatttaat	atttaataata	31560
gaaattgagg	tcctgttagt	gcatgtcagt	tcagtggaaa	atgaggcgca	tcagctgagt	31620
ttgtttcatt	gtgaaaccgc	agctgggagc	aggggctgca	tcctgtccgt	gttaccgacg	31680
ggttaagtgt	tgtgctctgt	gacttctggg	gggggtgctg	ggtgaggggtg	agtagggaat	31740
gagtgggtata	gggatgggaag	agcattgggt	tgcaaaaggtc	tttctgttta	cttttttttt	31800
gttttttgtt	ttgagatctc	tttcggatgc	tttaaaatct	gaacatggag	ccattaatga	31860
gaaacgtgaa	gttattagaa	tcatttatca	ttttctttga	agtttgtact	gccattttgt	31920
gtaattttaca	acatttcttc	cttttatcgg	gaatattttg	gatgaaagaa	aaaagcagct	31980
gctcaccttc	agagtattag	aataaatgtt	tttgttttcc	ttccaaccac	ttgattctgc	32040
agatgacaca	tcaactgcgg	agtcagccac	acatcaagat	aattggactg	tgtgtggggg	32100
ttaagccctc	agaaccagtc	tatatataga	agcagttctt	gccaggcagg	catcatatct	32160
ggggcttttaa	gcaggctgca	atccaggagg	ttagagtaac	gtaaaaacag	caatagaatc	32220
agtccagaaa	gttagaggct	tggaaattgt	cgtcaatagg	cttgtgttga	tttgacaccc	32280
tatccagcca	caaaatgtag	gaggcaatct	gcttccaaag	atgtttggca	ggctgaggat	32340
gaggtgggta	atagtgtatg	ttgcttgtga	gggggggtgag	gtggggggagg	gggatagagt	32400
tgtctgttaa	cttactctaa	catatctgtt	gcaaagcaag	cttctaggaa	agacaaacat	32460
catctatttt	tctgtataac	cctgcatagt	ggggcctggg	tgctgttggc	tcacacttac	32520
tgtgtccttc	tcaagtgtct	aagtaaaggg	ctttttcctg	cctcatccaa	gaaatgggtcc	32580
tgggtggggg	aggcaaatga	aacaaataaa	acacaccacc	atactttctc	attccaaaag	32640
gtgaaactag	atcttatcct	tctactgttc	ctggaagtag	aaaccccggt	agcaaaaccg	32700
cctccttgct	ggaaatgaac	ttgaagaaac	ctggcggtcc	caaccttggg	agtgggctag	32760
aggtaaaggg	cttctctgta	gaatatttca	agggggagta	aattctttaca	cagatttcaa	32820
tttaactctc	ttttattact	tttctttttt	ttatcattta	cgtctatttc	atgaggtagt	32880
ttgcatgtcc	ttgaatggaa	tctcgttacc	atgaaagctt	ttttagcatt	gatttcataa	32940
cagtcttaat	ttaatagctc	cgtcattact	gagaagctct	gggagtgggg	ccctggcttt	33000
ccaggtcact	gaccttttaa	ttacaaacct	tgttctgatg	gccagggttat	cgactggaca	33060
gctcccagct	tgtgccccca	ggatgaaaac	gaaaataact	gtgtttcctc	ccccatctcc	33120
agggaaaaaa	aaaattgtaa	cctcttgtgt	ttctaaaatt	aattttctcc	ttcagcttta	33180
ctttataatt	aattctttaa	tgtgtcttag	tgaagccaga	agtcctttca	caaagctttt	33240
cttcttagag	cttgggtcca	gcagatagct	tggggggagg	gcacggaaat	cttgccagct	33300
cccacccctt	gcttgctgtg	ggcccatctc	ctcatcctca	gaaactcctg	cggctgagct	33360
ggaaggaata	caattggctc	tgtgaggggc	tgtctggccc	ttctgatatt	ttgttaacga	33420
gacatggatt	gtggcatcaa	gatttagatt	cattctctctg	tttgttgagg	tcattgaagc	33480
cagtatatcc	tggacatttt	ttaaagaggt	ccccattctg	agaaaagaca	ggagttgaat	33540
gtcttattga	ttcttacctt	tctgttcgtt	atagacgacc	agaggaaaca	aatgcccgac	33600

acggattcga	ctcagtcata	agtgtgaacc	aaataggccg	atctgggttc	tctcactgac	33660
tgaagaggaa	gagaaataag	agaggacagt	gggcaaaatg	taggggtgaca	accaagggtt	33720
ctgggttgcc	cagaattgcc	ctgggttcaa	ccctgaagtt	cccatgttgt	ggacagcccc	33780
gtggctctag	acaaacaggt	caccttagcg	gtaaaagcct	ttctcaggag	tgagagctac	33840
caggggagac	aaaacgggtt	tgggttttga	acctggagga	agaaggcaaa	atgagaagag	33900
tccactggca	gtgagtcccg	gagaggcccc	cctgcagcag	cgtggcatct	tccgcaccca	33960
cttctctgct	tttctccgt	agccctgccc	tagtgtgggt	ccagtgcaga	gcctctgggg	34020
gcggggccgt	gccttgccag	tgagcgagga	gctgctcgtg	cggagcaggc	agggctgtgt	34080
ggcagccgcg	cttgcttctg	aggatgattg	agcatctcca	tccatctgtt	gtgaacggac	34140
cgtcttctct	ccctgccagt	cttgccactg	catattcgct	acctgctgtt	ctggcccagc	34200
ctattcatca	caccgactgg	tcccccgcat	caattttccc	gctccccctg	ttatccaaac	34260
ttgcttgaa	ctccacagat	ttttctcgcc	atccaggacg	agacctacgg	cagctaggcc	34320
agccgaatgt	tgtagaaaca	gagatgccct	ggcttcccca	ttcagagcgg	gagctgatag	34380
cacttgctgc	cccaagaagg	ctgagctgag	gggtttccct	cacttcaccc	tgcgatgggg	34440
aaatagtga	gaggagtgtg	cggggaggga	acactttcag	atttacccag	ttacttttat	34500
gttttccctg	caactgaaga	ctgattcttt	ctttaaactt	gcgtgctgt	aacaatactg	34560
caatgaaaag	gaaagtgaca	aaatgacatt	ggcatgtatt	agtataaaaa	aaattttttt	34620
tactttttga	aaaggtaagg	catatacatg	gtcttaaaaa	ttcaaacagt	agagaagggt	34680
atacagtaaa	aaataagtct	tctcttctca	ttctctcatt	cctgttcccc	acccgttctc	34740
ttttgcagag	gatgctacag	tttcttatgt	atcattccag	agataatcta	tccacatgaa	34800
agcatgttaa	tatgtattac	tccccacag	aaacacgaat	gctttctaaa	tacagtggta	34860
gcataattta	cactttactc	gtatacttgg	gtttatatct	cggcagtcac	tccacatcga	34920
tacatactga	cttgcttcat	tcttttcagt	ggctgcataa	tattccatta	tatgcatgtg	34980
ttatcctttt	aaaaactagt	cccggctggg	cgcgggtggc	cacgcctata	atcccagcac	35040
tttgggaggg	agaggcggga	ggatcacgag	gtcagaaaaa	tgagaccatc	ctagctaaca	35100
cgggtgaaacc	cgctctctac	taaaaataca	aaaaattagc	tcggcggtgg	ggtatgcgcc	35160
tgtagtccca	gctactcgcg	aggctgaggc	aggagaatcg	ctttaacccg	ggagacaaa	35220
gttgtagtag	gccgagatcg	gtgcaccgca	ctccagcctg	ggtgacagag	caagactcca	35280
tctcaaaaat	agaaacaaaa	acaaacaaaa	aattagcccc	aaatttgtga	gcatttaggt	35340
tgattcctat	cttctgctgt	ctcaagcaat	ggcccaatga	atattcttgt	cgtatacatt	35400
gttgaacgcg	tgttgggttg	gcaccatgct	gaagtcagag	catttttgca	tatggtaaag	35460
aggatagggg	atatttttct	tgcttaaat	tcattgggatt	atgtttcata	gtaaagaaga	35520
taaaactttt	ttaaggtaaa	catggactat	aggtagaagg	aagttaataa	gaggaaaaag	35580
agtaacaaat	ttcgggttaac	acttagcaca	gaatttgatt	ttgaagggat	ggacattctg	35640
gttatgtgaa	aaattcttgc	tttctttttt	tgttttgaga	cggagttctg	ctctgtcgcc	35700
caggggtggag	tgcaatggca	caatctcgac	tactgacgc	ttctgcttcc	caagttcaag	35760
cgattcatct	gcctcagcct	cccagagtaac	tgggattaca	ggggcctgcc	accgcaccca	35820
gctaattttt	gtagtttttg	gtagagatgg	ggttttacca	tcttggccag	gctggtcttg	35880
aactcctgat	ctcatgattc	acctgtctcg	gcctctcaaa	gtgctgggat	tacaggcatg	35940
agccaccact	cccggcctgc	tcagttttga	cctagccatt	gagggaggca	gtgggcacag	36000
agagaaaaga	gcaggaaggc	cttcgttagt	gaggggaggc	tcaggcagag	acgcattgtg	36060
cagtcgctgg	attggcgtgt	gaggaaaaa	aagggaagag	aattgaggct	ggtgagatag	36120
gaagtgaggg	aggagctggg	gttaggaccc	aattattatat	aacagtattg	cctaggctgg	36180
aacgtaatgg	catgatcata	gctcactgaa	gccttgaact	tctgggctca	agcgatcctt	36240
ctgccttagc	ctcccagta	gctgggacta	caggcacgtg	ccaccacacc	tggtgagttt	36300
ttttgtagag	acaggggtctc	actgtgtttc	ccaggctggt	ctcaaaactct	cggcctcagg	36360
tcatccttct	gccttgccct	cccaaagcat	tgggaattaca	gacatgaacc	acggcacctg	36420
gcccattggag	cacagagaaa	ctctgtttga	ggaagtgttac	tctcggtctc	gtattgaaac	36480
tgacttggcc	tggcaataat	aagaccagcc	acaaagatgg	tcctgctgag	tccgtcttca	36540
ggtgtggggg	atctgggccc	ggttggtagc	agtagagatg	gaaatagaaa	tgacagcata	36600
tttatgtaga	cagttctaca	gtttacaaaa	cactatcaca	tagttgattt	tttactatg	36660
accctagtat	gtagtgggca	ggtaattgaa	tattagttga	ttttttcgct	gtgaccctag	36720
tatgtagtgg	gcagggtta	gaatatttgt	taaatgaatg	aaaacattat	ttaatgaatc	36780
tcagagtggc	tcttttctcc	cattttacat	agatgaagaa	attgagggtt	agaaaggcta	36840
agttgagcta	atacatggca	gaagtagaac	tagaatctat	gtcttctgac	caagattctt	36900
tgaactatac	cacgtacttt	ctggagagga	aggacagaac	cacagacatg	gcagaagaaa	36960
gagtaagcca	tgctcaggag	ggtgtgtgtg	gcaagggat	gggcaaaaga	tgactctcag	37020
ggttgctttt	tttgtgttaa	gcagctttat	tggaggtgaa	ttgacataca	gtaaactaca	37080

catatttaaat	gtgtggtttt	aaaaagttat	gacatatgta	taattgggaa	actatcatca	37140
caattaagat	aatggacatg	cccagcatcc	ccaaaagttt	cctcctaccc	cttggtaatc	37200
ccttcctcct	gtggtccccc	caacccccat	atcctgggtt	gcaagtatgc	attgatctgc	37260
tatcactata	gattagcctt	ttttttttct	ttttcttttt	ctgagacagg	atcttactct	37320
gtcacctagg	ctggagtgca	gtggcgtgat	tacggttcac	tgcagccttg	acctccccgg	37380
gatcaagtga	tcctcccatc	gcagcctccc	aggtagctgg	gccacaggca	cacgccacca	37440
aacccggcta	attttttttg	tattttgggg	agatagggtt	tcacatgtt	gccaggtctg	37500
gtctcgatct	cctgggctca	agtgatctgc	ccaccttggc	ctcccaaagt	gctgggatta	37560
caggtgcaaa	ctactgtgcc	tggccctagt	ttgcattttg	tagaaattta	tataaatgga	37620
attatacagt	gtgtaatttt	ttttgttctg	gcttttccac	tcagcataat	tactttgaag	37680
tttggccatg	ttgttgtata	tactagtgg	tcattccctt	ttattgctga	atactattcc	37740
attatatggc	tatactacct	gttgatggac	atltgggttg	ttttcagatt	ttggatatta	37800
aaaataaagg	tgctgtcaat	atltataagt	ttttgtaggg	acataataat	tcttttgggt	37860
acatacttta	ggatgggaatg	gctggatcat	ataatagggtg	tgtgtttaac	atlttaagaa	37920
acttctcaac	tgtttttgaa	agttgttata	ccattttaca	ttctcaccag	tcagtatga	37980
gtgtaccagc	atlttgagcc	tggagaatag	gaagtgaag	gtgacaaatt	ttctagtaa	38040
gaagccactt	gaactttgaa	atattcttaa	gagtgaactaa	ataatagggtc	atgtttgagc	38100
tacttcagct	ttagaggcaa	cagtgcataa	actatctggg	tttgaatcct	agcttcacca	38160
ctcttttagct	gtgtggtcct	gcataaaata	cttaacttcg	tggtagattg	gtttctttat	38220
ctgtaaaatg	ggattaatga	taatatlttac	tgcataaaat	tcttgtaaga	attaaatgaa	38280
aattggctgg	gtgcggtggc	tcaagcctgt	aatcccaaca	ctttgggaga	ctgagacaga	38340
aggattgctt	tagatgggaag	ggttgagacc	agcctagaca	acacagtga	atcctgtctc	38400
tacaaaaaaa	atltaaaaat	agctgggctg	tggtggcgc	gcctgtgggt	ccagctactt	38460
gagaggctaa	ggcaggagga	ttgcttgagc	cttgagggtt	gagcttacag	ggagctatga	38520
ttgtgccact	gcactgtagc	ctgggtgaca	gagcaagaca	ctgtctcaaa	aaaaaagatt	38580
gaggaggggg	tagaattaaa	tgaatgat	atggaaagt	cttagcagag	tgtctggcac	38640
caaaaataagg	gcttaattga	tgacaacaat	catcaatagt	atatgttctc	ttagaagata	38700
tattcttaat	gggtctatag	cagtttgctg	taattgtatc	ataagaattc	gtgcatcagg	38760
aacctctagg	aattttgagc	agagagggt	ttaatcacag	cagttaggcc	gggtgcagtg	38820
gctcaagcct	gtaatcccag	cactttggga	ggccaggca	ggtggatgac	ttgaggtcag	38880
gagtttgaga	ccagcctgac	caacatggcg	aaacctgtc	tctactaaaa	atacaaaatt	38940
agccgggtgt	ggtgacgctt	acctgtaaac	caagctactt	tggaggctga	ggcaggagaa	39000
ttgctgaac	ctggaggcag	aggttgcagt	gagctgagat	tgcgccattg	cactccagcc	39060
tgggttacag	agcgagactc	tgtttcaaaa	aaaaaaaaaa	aaaaaaaggc	taggtgcggt	39120
gctcacgcct	ataatcccag	cactttggga	ggccaagggtg	ggcagatcac	aagggtcagga	39180
gattgagacc	atcctggcca	acaccgtgaa	aacctgtctc	tactagaaaa	aaaaaaaaaa	39240
atcagccgtg	cgtggtggtg	ggcacctata	gtcccgcgtg	ctcaggaggc	tgaggcagga	39300
gaatggcggtg	aacccgggag	gctggaggtg	cagtgaagccg	agattgcgcc	actgcactcc	39360
agcctgggtg	acagagtga	actccatctc	aaaaaaaaac	aaaaaacgaa	caactacaa	39420
aacagcaaaa	aaaccagatg	gttaggcact	tactcactta	ttgaaaaggc	taggaggtga	39480
gacccaagggt	taggccttca	ggaatgactg	ccagataaatt	tgccagggtga	ggtgctacct	39540
ctgtcctgat	caagcagtg	ggaatcaaga	ggctgtcact	ggagctgtgg	agctcaagt	39600
catgtccttg	cagctgtgat	ccagggacca	agaagttgct	gctgccccca	ctgcaagtgt	39660
tgtgtgacac	ctggaaaaagc	aacgacagga	cattggaatg	tgggcttggc	ttctacttct	39720
gtgaagattg	gctcttgacc	cccatgaagc	tggagactgg	acattacaat	aggaacacct	39780
agtggtttcca	atatacctgcc	tgcccatctg	ctgatatttg	cagcaatcaa	aagcagcaag	39840
aacagcagtc	ctctgcctta	tttccacttt	ccaaattgtc	catgagtga	cctaattgggt	39900
ggtacctaat	tcccatccag	aactctagct	gccatggagg	gaagcatttt	gtgcaatatg	39960
gcgcaaatga	tgggtgcggt	agtcctccgc	ttaaccacgg	aggagacgtt	ccaagacctc	40020
cagtggatgc	ctgaaacctc	ggctagtacc	gaactctgta	tgtactatgt	ttttcttatg	40080
cttgcatacc	tttggtaaag	tttaatttat	aagttaggta	cactaagaga	ttaacagtgt	40140
taactaataa	tataaattgaa	cagttaaaac	aataactgt	cataaaaagta	atgtgaattg	40200
actcaccacc	tctcccaaat	tatcttattt	tcaggtaact	gagactgcaa	aaagcaaaac	40260
cacagataaa	gggagacttc	tgtgtatatg	tgacagaagg	atacttttat	gcttttttag	40320
tctattatta	tttttttaga	agacttgggc	ctttgttagc	aactgtaatg	atatacttcc	40380
agtttgtcca	agagataaat	attgatgtat	ctctatcat	cactggcttt	cgagatgatt	40440
ttaagaaaac	ttgttggctg	ggtgcagtg	ctcacgtctg	taatccagc	actttgggag	40500
gctgaggcag	gcagatcacc	tgaggtcagg	agttcgtgac	tgggtctggc	aacatgggtga	40560

```

aaccctgtct ctactaaaaa taaaaaaaat tagccaggcg tgggtggcgca tgcctgtcat 40620
cccagctact tgggaggctg aggcaggaga atcgcttgaa ccctggaggc ggagggttga 40680
gtgagctgag atcgcgccac tgcactccag cctgggtgac agagtggagc tctgtctcaa 40740
aacaacaaaa caaaacaaaa caaaaagaaa aatttctttc ttatctggcc tcacttaggg 40800
atggaagttc ttttaagtga atttatctgc taagggtaga caagagagt tccaccaaaag 40860
ggactacatg atatgcgggc ttattggaac tgttggaaaa tgttagaagc agggattttt 40920
gaaacttaac ataaggtata acataaggca atctctactg aaaaacattt tatgttgatt 40980
ggactgtaat tagaaagatt taaaaataac tttggatagt attcattaat ttaccaatcc 41040
attgttatat tcaacacttt cgagctgatg tcttttaaaa atctaagttt atctgttggg 41100
gggtggtgta tgaattagt tctctgtaat tgtatgaata cggagtattc ttatctttgt 41160
atgtgatggg gtgcttctat tttaaattta tttttaacta tagataggct tgctagggtg 41220
gtcattccac agcttggtct tctttccgtt tttgaagtaa aggtaactca ctaatggtcc 41280
tcagtaaaca gagtgatggg gcaagctgac ttatatttca attgttctga gaattgaaca 41340
actctactaa tgtttccttt ccaacttcaa acatacctgt tcagtttctt caacatcctg 41400
ataggagctg atctcctcag aactctcccc tctcatcaga cagaggactt gggcatgctc 41460
taatctctta ctgttaatta ttctttttag ttttaaagcc ctttaaagta atctttctgt 41520
aattagattg ttgagttagt tgtctttagt aatatgggtg tcttaaattt tgtgtggatt 41580
ttcagattgt taaatggttg cagaggcttt cattcatgaa gttcaagttt actatatcat 41640
ggtatgtcag gaaaaaaaaa atcatgacct tctgtgataa attaaatatt acaaccacgt 41700
aaatgtcatc ttttcaatga aactgaaagt gcataggaat gggactcttt ttcagtctgt 41760
tttggcttta agctgtaaga aaaatathtt aacactgaca gtagtaaac tatgaagcta 41820
aagaacaaaag ccatactctc ccagcttta taagtcacac gcggaattgt gaattaaatt 41880
attctaattg caaaatttgg ggtcttggcc gaaagaacac aggttgaatt tgaagaagag 41940
gcagctagaa aaatcggtgt aacttttacg tgaagataat ttgcacagaa tgtaattgaa 42000
agagaataaaa tatggagctc catgatgtcc tctttgagtc tatttctcat atttacttac 42060
attttttttt cccaatcaaa ggctctcctt taggcagctc tgaagagagg agacacagt 42120
ctgaaataga aataaagggt aagtatctcc gatccaaaat gcttgggacc agaaatgttt 42180
cagtttggat ttttccagat tttggaatat ttgcagaata ttgtgttggg tgaacatccc 42240
tattccaaaa tcctccaatg agcatttcct ttgaatgtca tgttggcact caaacgctt 42300
cagatttttg attatttttg atttcagatt tttggatcag ggatgctcaa cctgtaacag 42360
gcagaaataa tagaaataa cagaaataac ataaaaatagc actgttcttt ggaagatctt 42420
agtaccttat ttggaatat ttttactatt cattcatcca ccacccatcc atccatccat 42480
ccatctttcc atccaacaag tatttattga gtgcatgtat cttacaaggc atggtgctgg 42540
ccctgggagt gaggatgtaa tgttaccatt tacataaaac aaacagaggc ctgggggtgga 42600
agcagactcc acagaaatat gaacaaacaa gcaaaataca gataagcaag gtgctgtgag 42660
agagaataat ggagagggtg gggtaggttt gcattgggaa ggttgcagag accagaagaa 42720
tgataagtgg ttctgtgaag aatgagaatc ccgggcagaa aggacagcaa gctctcaaag 42780
actccaaggc aggaaaggag cttgatttga tctaggaact cctgcagcag tgagtgaaaa 42840
tgagagtgc attttatagc ttccatctgg agacaccatg g 42881

```

```

<210> 83
<211> 614
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> modified_base
<222> (326)
<223> a, t, c, g, other or unknown

```

```

<220>
<221> modified_base
<222> (382)
<223> a, t, c, g, other or unknown

```

```

<220>
<221> modified_base

```

<222> (388)
<223> a, t, c, g, other or unknown

<220>
<221> modified_base
<222> (398)
<223> a, t, c, g, other or unknown

<220>
<221> modified_base
<222> (400)
<223> a, t, c, g, other or unknown

<220>
<221> modified_base
<222> (459)
<223> a, t, c, g, other or unknown

<220>
<221> modified_base
<222> (484)
<223> a, t, c, g, other or unknown

<220>
<221> modified_base
<222> (509)
<223> a, t, c, g, other or unknown

<220>
<221> modified_base
<222> (514)
<223> a, t, c, g, other or unknown

<220>
<221> modified_base
<222> (519)
<223> a, t, c, g, other or unknown

<220>
<221> modified_base
<222> (552)
<223> a, t, c, g, other or unknown

<220>
<221> modified_base
<222> (560)
<223> a, t, c, g, other or unknown

<220>
<221> modified_base
<222> (573)
<223> a, t, c, g, other or unknown

<220>
<221> modified_base
<222> (578)
<223> a, t, c, g, other or unknown

<220>
 <221> modified_base
 <222> (602)
 <223> a, t, c, g, other or unknown

<220>
 <221> modified_base
 <222> (606)
 <223> a, t, c, g, other or unknown

<220>
 <221> modified_base
 <222> (608)
 <223> a, t, c, g, other or unknown

<400> 83
 gtaaagatgg gggtacagaa aacaattaaa tagaacaaaa acaactgttt ctttttcctg 60
 tgattcaaga agggcttaga tcttctactc agcatccttt tactaatgcc ctccattggc 120
 tctcacccca acatttcctt ttttatagct tattttgtaa tgcctcctta attatccttt 180
 aatagaagcc accgtgata agctacctac actcatacag aagcattaat ataatgcccc 240
 agatgtactg tttcaggggc aaaaaggaaa ataatttcca acaaagtggg gtgtgtttca 300
 ctgtcagatg cttgcactta cacacngaag cgctgggcat ccgacagagg ctgattggca 360
 catgggggca cgggggattg gncagctnaa accccggncn gcagcgggtg cccctttggg 420
 aaaatgggga ttttcccaaa aacaagtaaa accgggggnt ggctccttga ttttaccaga 480
 gtangctacc atttctagc tttgggatnc ccgnccatna aggggccaat ttcacttggg 540
 ccggtcggtt tnaccaacgn tcgtgactgg ggnaaaaancc cttggcggtt acccccaact 600
 tnaatngnct ttgg 614

<210> 84
 <211> 23241
 <212> DNA
 <213> Homo sapiens

<400> 84
 ataataaact gtcactgttc tcatcatgaa tgaatctcaa aaatatgtgt taagtaaaag 60
 aagcctggga gactgagggtg ggaggctcac ttgagggtcag gaggttcaaga ccagcctggg 120
 cgacacagcg agacccgacc tctacaaaaa ataattagct gggcatcata gtgcatgact 180
 atagtccag ctactcggga ggctgaggct ggaggatcac ttgaaccag gaggccaagg 240
 ctacagttag ctgtgataac acctctccac tccagactgg gtgacagagt aagaccctgt 300
 ctcaaaaaac aaacaaacaa acaaacaaag ttttaaggctg gacgcgggtg ctcccagcac 360
 tgtgggaggc cgagggtggg ggatcacttg aggtcagggg ttcgagacca tcccgccaa 420
 catggcaaaa ccctgtctct attaaaaata caaaaaaatt agccaggcat ggtggcgggc 480
 acctgtaatt ccagctactt gggaagctga gacaggagaa ttgcttgaac ccaggaagcg 540
 gaggtttag tagccaaga ttgcaccact gcactccagc ctgggcaaca gagcaagact 600
 ctgtctcaaa caaaaaaaa aaggaaggaa aggaaaaaaa aaaaagacta aagagacaaa 660
 tcaatgcaat ctctgtttct tctactagatt ctgatttttt ttaagtgtga aaatttgagt 720
 gcagattctg ttttaataaa tactatttat caacacttaa atttcttgtg tgataatgat 780
 attgtgggta tacaggggaa taaccttact cttatgagag ataagggtgaa atattctagg 840
 atgaaatate cttgatgtct gtaacttacc acaaatcctt ccaaaaaaaa aaatatatat 900
 atagagagag agagagagag aaagagagag agagactgac ataaagcaaa ttcagcaaaa 960
 tgtgaacagt gcactctggg taagttttta tgggaatttt acagaagttc tcagtattat 1020
 cctttcaact tttctatacg tgagaaattt ttcaaaataa aaagttgagg ccagggtgcc 1080
 ggctcacacc tgtaatccca acactgtggg aggccgaggc aggtggatca cctgagggtca 1140
 agcattcaag actagcctgg ccaacatggc aaaaccccat ctctactaaa aatacaaaaa 1200
 aattagctgg gcatgggtggc gggcacctgt agtcccagct actcaggagg ctgagacagg 1260
 agaatcgctt gaaccagga ggcagagggt gcagtgagcc gagattgtgc cactgtactc 1320
 cagatcggga gacagagcaa gactccgtct caaaaaaaa aaaaaaaa aaaaagttag 1380

ccaggcgtag	tggcacacac	ctgtagtctc	agctactcag	gaggctgagg	caggtgaagc	1440
aggagaaccg	cttgaacctg	ggaggctgag	gttgcaagtga	gccgagattg	agccactgta	1500
ctccagcctg	ggcaacagag	ggagactcca	tctcaaaaaac	aaaacaaaaac	aaaaaaaaaaa	1560
aacattgaga	gggcaaatat	cttgtctgac	ctgctgttat	tcaagagttc	aacagactct	1620
caaaactaca	tgtaaagact	gggagaagaa	aactaactct	gagcacttac	tatgcagcag	1680
gtgctcttca	catctgtgat	ttcagtcac	actaaaaggg	taattatatt	ttattttatt	1740
tattttattt	ttaagtata	gggttgca	ctgttgccca	ggctggagta	caggggttta	1800
ttcacatatg	tgatcatcgt	gcactacaga	ctccaactcc	tgggctcaag	caatcctcca	1860
gcctcagttc	cctgagtagc	tggaaactaca	gacatgcacc	accacaccca	gctttaaggg	1920
taactattat	tgtctcgtt	ttacagagga	gaaaacatac	tcagaaaggt	ggagtataa	1980
gtccaatagt	tgtgagtgat	gaagttccac	caaaacctgc	caggatgcga	agccatgctc	2040
ttccactctt	tcactctgct	cttctccctg	cctgcttctg	tagcctctca	atgcaaaatt	2100
tactgtaccc	agtgaacctc	cacagatagg	aaatctacct	tctgcaataa	tactcgatac	2160
tcagtaactg	tgaagttaat	agattgaacc	atgcctctgc	tgttcagcga	aggaagaaaa	2220
gctagtagga	aagttgggaa	atagagataa	cgtttctcat	tcctacgggc	tccaacgtgt	2280
acacactaga	aaggacttca	atgagagatc	agccatgctg	gctgggctg	gtggctcatg	2340
cttataatct	cagcactttc	tctctctctg	tctcttcccc	cgtccccaaa	cagggatttg	2400
ctctctcacc	caggctggag	ggcaatggca	caatcacgcg	tcactgcagc	ctcaacctcc	2460
caggcccaag	tgatgctctc	acctcagcct	ccaaagtagc	tggaaaccaca	ggcaagcact	2520
accatgcctg	gctaattttt	taattttcag	taggaacgag	gtctccctat	attgcaaaag	2580
ctgggtctcaa	actcctggcc	tcaagcgatc	ctcccaactc	agcctcccaa	agtgcataa	2640
ttacaggtat	gagccatcac	gcccagccag	gaactcacca	ctacaaaaat	tgttttaaaa	2700
atacattagc	caggccaggc	acagtggctc	acacctgtaa	tcccagcact	ttgggaggcc	2760
gaggtggggc	gatcacgagg	tcaggagatc	gagaccatcc	tggctaatac	ggtgaaacat	2820
cgtctctact	aaaaatgaaa	taaaaaaaaa	atagccgggc	gtggtggcag	gtgcctgtag	2880
tcccagctac	tctggaggct	gaggcaggag	aatggttcga	acccgagagg	cggagcttgc	2940
agtgaagtga	gatcgcacca	ctgcactcca	gcctgggcga	cagagcgaga	ctctgtctca	3000
aaaaaataat	aaatacatta	gccaggcact	gtgggtgcaca	cctgtagtcc	cggttactca	3060
ggaggctgag	acgaaaggat	tgcctgagcc	tgggcgggca	aggatgcagt	gagccatgat	3120
cacaccaccg	cactctgggtg	acagagttag	acctgtctc	aatcaataga	tcaaccacat	3180
aaaacagagc	aatgtgggga	acacagaaca	aaggaagcaa	taaataagaa	tccagcaagt	3240
cgtcttgagg	atagactaaa	aagactatac	cattatgaaa	aagtaagtat	gttcctgaaa	3300
tgcaaaagtc	atgaaggaca	gctagaataa	acactagcat	tcagggcatt	ccttgaattt	3360
ttaggaattt	acttctgaat	aaaagaactt	tactagacaa	gtagtcaaca	catgaaaaat	3420
cataccccaa	aagatgtcgt	aatagaactt	gaagaaaggt	ttagatccat	ttgtgagtga	3480
aaactcagag	cttattaaat	tgaataataa	taataataga	caacacattg	tttcaggcac	3540
tgttctggca	tttttacata	aataactcat	ttaaggccag	gtgcagtggc	tcacgcctgt	3600
aataccaagc	tctttgggag	gccgaggtgg	gcaggttacc	tgaggtcagg	agtttgagac	3660
cagcttgtcc	aatatgggtga	aaccccatct	ctacttaaaa	aaaaaaatta	gccaggcctg	3720
gtggtgcata	cctgtagccc	cagctgaactg	gcaggctgag	gcaggagaat	cacttgaacc	3780
tgggaggcgg	agggttcag	aagccgagat	cgccgactg	cactccagcc	tgggtcaacag	3840
agtgaagactc	ggtctcaaaa	ataaataaat	aaataaataa	ctcatttagt	cctcagagca	3900
actctgtgag	ataggtccta	gtattttccc	tgttttgac	atggagaaat	taagtctaga	3960
aaaattaagt	agatctgtcc	gagatgacat	tgtgtgtaag	ttagtggagt	taggattcca	4020
agccagtggtg	tctggcttta	gagcctatac	ttgtaaccgc	tattctacac	tgccctctca	4080
gggaagagaa	ggttattcac	ctttaatagc	tggaaaccag	agattgatat	gacaaggcta	4140
accaacaaac	tttctgtgaa	agacagaata	ctggctcagc	cccacagttc	taaccctaca	4200
caacaaggcg	tgggggaatt	agctaaacaa	tcctttcaat	cctactctgc	tttaatcgga	4260
gaaatgggaa	actggattga	tcaagacttg	aaaatgaaac	aggcaattgc	tgaagagcat	4320
tggttcattc	aaaaagcgtg	catttgcttc	ttggttagata	gccatagagt	ctgttatgaa	4380
aagttcaagt	tttggccagg	cactgcagct	cacgcctgta	atcccagcac	tttgggaggc	4440
tgaggtgggc	ggatcatgag	gtcaggagat	caagaccatc	ctggctaaca	cggtgaaacc	4500
ccatctctac	taaaaacaca	aaaaattagc	tgggcatggt	ggcgggcggc	tgtagtccca	4560
gctactaggg	aggctgaggc	aggagaatgg	cgtgaaccca	ggaggcggag	gttgcaagtga	4620
gcagagatcg	cgccactgca	ctccagcctg	ggtgacacag	cgagactctg	tctcaaaaaa	4680
aaaaaaagaa	aagttcaagt	ttttccccca	ggctgccagc	atgttctgtg	gcaatcctac	4740
ctccaccagc	tttggaagag	agggcgaagg	agaagcagag	ctgaaaatca	aacaagtgat	4800
ggccatgccc	ccttaaaagga	ccttagatcc	ttttctatta	aatacatata	cagagagggc	4860

aaacttgcaa	aacccaaaaga	atccttggggc	ataacagtgg	ctccaagtgg	caagattttt	4920
agtactgttt	acagcactgg	caaattaaat	gtcctataag	aatcaggaac	agagccgggc	4980
acgggtggctc	acgcataata	tctcagcact	ttgggaggct	gaggcgggca	gatcacttga	5040
agtcaggagt	ttaagaccag	cctggccaac	atggtgaaac	ctatcgctac	taaaattaca	5100
aaaattagtc	aggtgtggtg	gcaggcaccc	gtagtcccag	ctacttggga	ggctgaggca	5160
ggagaattgc	tcgaacccgg	gaggcagtga	gccgagattg	cgccaatgca	ctccagcatg	5220
ggcgacagag	agagactccg	tcttaagaaa	gaaaaaagaa	tcaggaactg	aggacaccct	5280
tcaatcccag	cctgtgggca	ttcctaacac	aaaacaattc	agagaaaccc	agaccccaag	5340
atgccttagt	atctcagcaa	actaaatgtg	gtaaggcaag	aaaggagagg	ccctcctctc	5400
gagacacttg	ccaaactcca	gaacacctga	cagtgagaag	gccagaatca	gtccttgtaa	5460
tctcccattg	tttacaatca	agacatcttc	ttcctgaatc	attcacactg	ctaatagaaa	5520
ctgggtatggg	ggaacacacc	aactccttta	agttcaattc	ttgtaacaga	cgtgcagaat	5580
aagacagtaa	gaaacactaa	gcgggtggtc	tctgcctctg	aaggagtgga	aataactagta	5640
agtttgctgaa	aactcttaga	ggtgcttcaa	ggagatggga	gaggaggaat	gaggcccaa	5700
gttgaaacta	ttttcttctt	cctcattcta	atcctaacta	aactcaaaaa	tgtatggatg	5760
actagtggag	tcacacaggt	tcaatacagg	ctcaacagag	cacacgattt	ggggcatgtc	5820
acaaaccctt	agtattcatt	tctgtgaaat	ggagggttagt	agcctgcact	tcataaaggt	5880
tgtagtgaac	actaaacgag	ataatagatg	taatttgtgc	tcaacatgac	accacacagg	5940
cagttaaatg	taagatgtct	cttagccctt	ttctcctcac	cccaccctac	cccacctttg	6000
gactataaac	cccttcggag	accttatcat	ccactgcctc	ccggccgcag	aggcacaggc	6060
gtcaacgctg	gtccttatgg	tccccctatt	ggagtgggat	ttgtctgaat	ctgcaggatga	6120
aaagctagag	cggagccctc	ggccaacaaa	accaaaccga	gggaagcgag	gatgggtcct	6180
cagccaaaag	cttgggtggc	tctgttagtc	acagtgctgc	cctttcctat	caacgcactg	6240
agagggctcg	actagattat	ttctgactat	ccaacttgac	gagagaagcg	caaagggtgac	6300
cacagatgaa	gaggctggca	gccgctccag	gaggctgagg	ccgtgaggga	gtgggaaccc	6360
taatggaaac	aggccctccc	ccggaggggac	agccgggaac	gatcgatcta	tcctctcctt	6420
ctcaagccct	cgcagctcaa	ggctggggac	ttcccaaggg	tcccgtcacc	ctccccaaca	6480
agctcagagt	ggaccagagg	tgctggcagg	cgggaagtgg	ggaccggggg	gcacagccaa	6540
acaccagagc	cggggtcccg	gaatgtggtc	aaagaggggt	caccgggggg	aggggcccgg	6600
tggggaggac	ctggggaggg	gcgggggtca	ggagggggca	agaggtcggg	gtccccagct	6660
tcggagactc	ggggtcccta	cccggctccc	agcgtatgct	tgagcgcccc	ctccagccgg	6720
gggtctccgcc	gcacagcggg	gcagtcccac	tccccctacc	tggctcgggt	gctctgcctg	6780
ctccgaggac	gccatctttc	tgaggcctga	ctaatacaacc	gccgctgggc	gaggtttctc	6840
ccaggcgccc	tcgtctctgc	cctcccgccc	agctaagggt	agccggaaaca	gagcctgtcg	6900
atgtagggga	ctggggcaga	gggggtggagc	ccgggtgtcc	gggtcacctt	gcatagtttc	6960
cgtaagact	ctgctttcca	ggaagatccc	aagtctatat	cttcttttgc	ttgttatatg	7020
tgtattattc	tggttttgct	tttttttttt	gagacggagt	ttcgcaactg	ttgcctaggc	7080
tggagtgcaa	tggcgcgata	tcggctcacc	gcaacctcag	cctcccgggt	tcaagtgatt	7140
ctcctgcctc	agcctcccga	gtagctggga	ttgcaggcat	gcgccaccat	gcccggctaa	7200
cattgtattt	ttagttaga	tggagtctct	ccatgttggt	caggctgctc	tcgaactccc	7260
gacctcaggt	gatctgccc	cctcggcctc	ccaaagtgtt	gggattacag	aagtgaacca	7320
cagcgcccgg	cccattattt	tcttatttag	ttaatctctg	cccattccca	cagtgccatg	7380
ggcacattta	gggacttgcc	aatggatgaa	tgcgagaagaa	cttggaattt	aatttttaga	7440
catcagttca	gttccattca	ttgagtgcct	actatatgct	agggactttg	gtaggccttg	7500
aaataaaaaa	attcaagact	aatccctac	tcccacgccc	aggccaaaaca	cacttacaat	7560
tacagtatta	tggggatagg	actcggataa	gtgtgcagggt	ctattggggg	aacataaaa	7620
ggggcatttt	gaagagaaga	ggcttctaca	aaacgtcatt	attttacact	ggttgaattg	7680
ttagattttt	ttaattgtta	gatttttaaat	taaataattgg	acgggagcag	tggctcacac	7740
ctgtaatccc	aacacttttag	gaggccaagg	caggaggatc	ccttgagccc	aggaggttga	7800
ggctgcagtg	aactatgatt	atgccactgc	actccagcct	gggcgacaga	gcgagacctt	7860
gtctaaaaat	aagataagaa	aataaaaaat	gaaatttatat	gaaaaaggat	acatacatat	7920
gagttaaacc	ccagctccta	ttatagttgt	gttttgatca	atatagactg	cttaaaaagg	7980
atgacttaat	gaataattcc	tctactaaa	cgtgttttta	aatgtctaaa	cttttcttga	8040
gataatatcc	aatttctctc	cccacgtttt	ttttgtttgt	ttttgctttt	gtttttgttt	8100
ttgcttgaga	cgaagtcttg	ctcctgacgc	ccaggctgga	gtgcaatggg	gcgatctggg	8160
ccgactgcaa	cctccgcctc	ccgggttcaa	gcgattcacc	tgctcagcc	tcccaagagc	8220
tgggactaca	ggcgtgcgcc	atcacgcggc	gctaattttt	gtatttttag	tagagatagg	8280
gtttcaccat	gctggccagg	ctgggtctcaa	actactgacc	tcagatcatc	tgtccgcctc	8340

ggcctcctaa	agtgtctgaga	ttacaggggt	gagccaccgc	ccccggggcc	cttgcccacg	8400
tttttataaa	caaaatatga	ggtgggagga	ttgcttgagc	ccaggagatc	aaaactgcag	8460
tgagccatca	tcgcgcact	gcactccagc	ctgggagaca	gagcgaaacg	ctgtctcaaa	8520
aaaagaaaaa	agaaacaagg	aaggaaaagt	tccccgaat	gaataaatat	gagcagataa	8580
ttacttctag	tttacataaa	atgccctctt	ttaagagagg	aactttttga	tcatttttat	8640
tactattctt	ttaatcttag	atgtttat	ttcaggagga	aaaaaacaaa	cttttccata	8700
gtagcagtat	taaaacaaag	atgaatatgt	tgtcaagagg	catctgaaca	atctccaaca	8760
gtgccgagtc	gcatttcccc	tttctctctc	gatgcatttg	agactttaat	gcttactata	8820
tttattttaag	cgttttggtc	tgagacccca	aactaat	cacagttgaa	gcaggaaata	8880
gaatgggtgg	aaacatgcgg	gtgtctgtat	tagcattatg	catctcatat	gcgaatagga	8940
atgtcttaaa	aattcaatac	agtatacatg	cgtgtgcatc	gtcatgcaaa	ataagtctct	9000
attggcctta	tatttgaacg	cgcaaatgca	gctcctaaaa	gttaaaaaaca	actcctaggg	9060
tgaatcgcg	gatagaacga	aagcggcttt	aaacccagag	actacagttt	ccggcatgct	9120
tcgacgccac	acgtgattag	cggcaactag	aactacattt	cccggcgtgc	cctgggtctca	9180
cgtgtgattt	gctgcggaac	gaactacatc	tcccggcagg	ctgcggaagg	gggtcgagta	9240
gaaggaccgc	cgctccggcc	tcccgcgact	tctcgaaggt	gggcagggtcc	cacctgtgtg	9300
aggatggagg	tgaccgggga	gcgccgggta	ccagaatctg	gcgagatccg	gactctaaag	9360
ccgtgtctgc	tgccgcgcaa	ctacagccgc	gaacagcacg	gcgtggccgc	ctcctgcctc	9420
gaagacctga	ggagcaagg	ttggctcggg	accccgggcg	aggggtgtgg	ggagccagg	9480
ccgggtgagg	acgtccggcg	ggggcgaggc	gggggtcagga	gaggcgactt	ggggattctt	9540
gtatctcggg	tggaggcttg	ggacagaaac	gggtccgagt	ggcatagcga	tttacagatt	9600
taaggcgctt	gagcgtaatt	aatctcgtgt	gagactccac	ggtggtggga	agacagccag	9660
gaagcaatgt	gcaaattaa	ccagactcgg	cttaggtctc	ttgcctgaaa	tcacttcgat	9720
gttggaacca	acggacccca	ctgggttctc	gccactccgc	cacactcaga	tgggtacaaga	9780
acccccagct	gagcccacgg	cgggtgtggg	aggggtttcc	accgtccgct	ctggcaggaa	9840
cctatgcagg	aaagagggag	ctgctactga	ccatttctgg	aggtccagac	aaggaaactg	9900
agttgtaagt	gacggagccg	acggaagttc	cgagcccggc	cccatacctt	taccagctgc	9960
ttggccttgc	acttaaccag	ctctcaacc	tcagttttct	catcagcaaa	ttgggtataa	10020
tatttatag	cctgcttcaa	agggttgttg	gttctctcaa	ataagatgat	atatttaagt	10080
gacttacaag	tcttatttag	cagtagcaac	aaatcgctta	cccaaagaag	ttttacaggt	10140
tacatgtgtg	agccagcccc	aggcatgtag	tcacagtgtg	tgtcagaggg	cacagttgct	10200
tcctctcagt	caccaacaga	aatcatatgg	aaattttcag	agacccatga	acagccaaag	10260
cattataaat	gcttttgtaa	catggatttt	gcatataagc	atttatgtat	tttttttctt	10320
gacatttag	tactttactt	ctaattcccc	ttcagtgccg	tggctggatg	tgcgtggcac	10380
agaggttggt	tttctctgca	gtccagcgca	tacatgcctt	gctgttctat	tgggtggtag	10440
acaacaccgc	tgaaggatat	ttgtagtctc	ttggctat	ctgatcactc	cagtcccgtt	10500
agtatttgaa	gcattgctat	cactaaatgg	aatagtagag	acctgtcctg	gagaaagcct	10560
ctccgccaat	gataatgata	tgaagagcta	ctgatagaag	cttccacttc	ttttatactt	10620
tcccataggt	tagaaaagaa	gctgctaagg	aagatactgt	aaagaacaaa	aagcattttc	10680
tttttttttt	tttttttttg	agacggagt	tcactctgtc	acccaggctg	gagtgagctg	10740
gcgctatctc	ggctcactgc	aagctccg	tcccgggttc	actccattct	cctgcttcag	10800
cctcccgagt	agctgggact	acaggcgccc	accaccacgc	ccatctaatt	ttttgtattt	10860
tttagcagag	acggtttttc	accatgttag	ccaggatgg	ctcgattgcc	tgctttgtga	10920
tccacccgcc	tcggcctccc	aaagtgtctg	gattacagac	gtgagccacc	gtgcctggcc	10980
tttttgggtg	attttttgac	attttttacac	ataggagaat	ttaagaggac	aactgagggc	11040
cgggtgcggt	ggctcacacc	tgtaatccca	gcactttggg	aggccgaggt	gggcggatca	11100
cgagggtcagg	agatcgagac	catcctggct	aacacgggtga	aaccccgctc	ctactaaaaa	11160
tacaaaaaaa	ttagccgggc	gtggtggtgg	gcgctgttaa	tcccagctac	tccggaggct	11220
gaagcaggag	aatggcggtga	acccgggggg	cggagcttgc	agttagccca	gatagcgctt	11280
gggcaactcca	gcctggggcga	cagagtgaac	tccgtctcaa	aaaaaaaaaa	aaaaaaaaaga	11340
ggaaaactga	ataaatgaat	gagagactgc	ttgtttgcaa	ggaatcaaac	tagactttga	11400
ttggttggtc	actccagtaa	aaactcaaat	tgctaccata	catgagtgtg	gagtagctgg	11460
agtaaacata	ctttcaggag	ccagactttg	tgggtttaaa	tcccagcttt	gccacttact	11520
gtgtgatctt	agacaagtta	cttaacctct	ctgagccttg	ggttcatcat	ctataaaaaa	11580
gaactaataa	aagtacctac	tttacaggat	tattatgaga	ttaaatactg	tatatgaaaa	11640
gcacttaggc	caggcgcggt	tgctcatgcc	tgtaatccta	gcactttggg	aggccgaggc	11700
aggtagatca	ttaagtgcgg	agttccagac	cagactggcc	aagatggtga	aaccccgctc	11760
ctactaaaaa	tacaaaaaatt	agccaggcac	ggtggccggt	gcctgtagtc	ccagctactc	11820

gggagactaa	ggcagagagt	tgcttgaacc	cgggaggcgg	aggttgctgt	gaaccaagat	11880
tgtactactg	cacgccagcc	tgtctcaaaa	aaaaaaaaaa	agaaagaaag	aaaagcactt	11940
agggtgagc	acagtggctc	atgcctctaa	tcccagcact	ttgggaggcc	aaggcgggtg	12000
gatcatgagg	tcaggagtcc	gagaccagcc	tgggtcaacat	ggtgaaacca	cgtctctact	12060
aaaaatacaa	aaattagccg	gacatgggtg	tgcacgccta	taatcccaac	tactcgggag	12120
gctgaggcag	gaaaaactc	tgaacctggg	aggcagaggt	ttcagtgagc	cgagatcgcg	12180
ccagtgcact	gcagcctggg	taacagagtg	agacctgtct	acaaaaaaaa	agaaaaagac	12240
acttagaaca	gaatcaggca	cgtgatgagt	gttctggtag	tgctagaagt	gatgattgtg	12300
attctagtta	ttacctacca	ggagtctctg	tcagctctgg	agccatacat	acttgagatg	12360
cagggataga	tgtaatctcc	ttacggttat	ttgtcatttg	ccaaatattt	tattcttttc	12420
agcctgtgac	attctggcca	ttgataagtc	cctgacacca	gtcacccctg	tcctggcaga	12480
ggatggcacc	atagtggatg	atgacgatta	ctttctgtgt	ctacctcca	ataactaagt	12540
tgtggcattg	gctagtaatg	agaaatgggc	atacaacaat	tcaggtaaga	aactctagcc	12600
atgtataaaa	cggcctatgc	agtacagcat	ccatcatgat	tactttcact	gcacagacaa	12660
ttgccatttg	tctggctttt	taagcatttg	ttcaacagat	atttactgag	cactttctat	12720
gtgccagaca	tgggtctgag	tcctggggat	aaagatgaat	gaggccaggc	acggtgggga	12780
gatcaactga	gctcaggagt	ttgagaccag	cctggccaac	atggcgaag	tcctctcta	12840
ctgaaaaatac	aaaaactagc	tgagcatggg	ggcaggcacc	tgtaatccca	gatacttggg	12900
aggctgaggc	gggagaattg	cttgaacctg	ggaggtggag	gttcagtgga	gctgagattg	12960
tgccactgca	ctccagcctg	ggcgacagaa	cgagactctg	tctcaaaaaa	aaaaaaaaat	13020
agatgaatga	gacatggggc	cagttctcaa	ctaactcatg	gacagacagc	aactgaaatg	13080
cagcctggca	gggagctcag	tgtgacaggc	tgcagtcagg	ctggtgaggt	ctggatcctg	13140
gctctaccat	ttactaacca	ggtgaccttg	tgcaaatatt	ataacttctc	agtgcttgt	13200
tgacataata	attatagaac	ctgtccctca	agattgttgt	aaagataata	tagtacatat	13260
caaaccaggg	tttctcaatg	acactgctga	catttggggc	tggagttgtg	aagaggatgc	13320
tttgtgtatg	ataggacgtt	tagtagcatc	ctagatgtta	cgaacctccc	cccacaactg	13380
tgataaccaa	gaataaatga	ctccagatat	tgtcagatgt	ctcctggggg	gcaaaattgc	13440
tccacttgga	gaaccactga	tatgaagtgt	ttagatctta	cctggcacat	agttaaggac	13500
tcaataattg	ttacctgtcc	ctgccatcat	catcatcaca	ggagatagaa	aggggactaa	13560
cattggtgac	caaggatcaa	gaagtgtctt	gagaggggat	tagttttagg	gagggactta	13620
aaaaaaaaaaa	aagtgtcctg	aagtgtgcc	caaaattgag	gaagtcatcc	tacagcagtg	13680
gccctaccag	ccacctttgt	gctcaggcct	aagggaacagc	aatcgatggc	tacagctctg	13740
ccagttaaa	aagggaacca	tccccaagca	cagagaaatg	ctggcacaaa	tgaccgtttt	13800
cgtataaaaa	acaggacaca	cctggacaca	cagaaaccag	aaagggaagt	gtgattggat	13860
tccttgtagg	tgtgaccaca	cattgggttt	aaatggcttt	ttctatggaa	gaatacagag	13920
ccgttgacaca	cagagataaa	gatgaaagag	ggtcaggcac	ggtggcttat	gcctgtaatc	13980
ccagcacttt	gggagaccga	ggtgggcaga	tcacttgaag	tcaggagttt	gagaccagcc	14040
tggccaacat	ggtgaaagcc	cgtctctact	aaaaatacca	aaattagctg	gtcatggtgg	14100
tgggcacctg	taatcccagc	tacttgcaag	gctgaggcag	gagaatcgct	tgaactcggg	14160
cagtggaggt	tgacgtgagc	caagatcgctg	ccactgcact	ccagcctggg	caacagagtg	14220
agactctgtc	tcaaaaaaaa	aaaaaatgaa	agaagaggga	aaatcaaggt	cctggatgga	14280
tattgacctt	cctgtgaatc	cttgagataa	gatgcttctt	tcccattgaa	attaatctag	14340
atcctcaaga	ggtctgtgtg	tgtctgggga	ggaggtgaaa	acagcacttc	aggttgttct	14400
gtgactggca	ttttctccca	tgtgtcagat	ggaggtacag	cttggatttc	ccaagagtcc	14460
tttgatgtag	atgaaacaga	cagcggggca	gggttgaagt	ggaagaatgt	ggccaggcag	14520
ctgaaagaag	atctgtccag	catcatcctc	ctatcagagg	aggacctcca	ggtaaagcct	14580
cctccacaac	ctgcaacaat	gttcatccag	cctctgcccc	ccgccccagc	accttcttag	14640
cttccatact	tgccatagca	atctctttgt	tttaattctta	atttttaaat	aattcttaaa	14700
ttacaactaa	gatttttcat	cttctcatte	tcacctagag	taatttttca	accctcgtea	14760
cgaagcagaa	ttacctgtgg	atcttttttt	tttttttttt	tttttttgag	acacagtctt	14820
actctgtcgc	ccaggctgga	gtgcagtggg	gcaatctcag	ctcactgcag	tctccacctc	14880
cggggttcaa	gcaattctcc	tgtctcagcg	tcccaggtag	ctggaattac	aggtgcacac	14940
caacacgcct	ggctaatttt	ggtattttta	gtagagacag	cgtttcatca	tgttggccag	15000
gctgctcctg	agtcaagtg	atccacctgc	ctcagcctcc	caaagtgcctg	agattatagg	15060
cgtgagccac	cgtgcccggc	cagatttttt	ttttaataca	aatgcctggg	atccacccta	15120
aacctagtta	ggtggacgct	ggggtcaggg	atgccctgct	agagaatgta	gcgttggagt	15180
agatggcttc	acatccccc	gctgtcacca	cgactttgag	ccagtagctt	agcttctctc	15240
cttgtgtttt	ctctctagta	agattgggat	aggccagggt	cagtggctca	cgctgtaat	15300

ctcagcactt	tgggaggccg	aggcgggcag	atcacgaggt	caggagatcg	agaccatcct	15360
ggctaacatg	gtaaaacccc	atctctacta	aaaatacaaa	aaattagccg	ggcctggtgg	15420
tgtgcacctg	tacctgtagt	cccagctact	cgggatgctg	aggcagaaga	atcgctgaa	15480
cccaggaggt	ggagcttgca	gtgagccgag	atcgaccac	tgcactccag	cctgggtgac	15540
agagagagac	tccatctcaa	aaagaaaaaa	aagattggga	taaaaacagt	atgttttcat	15600
tcaaagaaaa	tttctctttg	agacagggtc	ttgctttgtc	acccagtgc	gtggcatgat	15660
catagctcac	tgcactctcg	acttctctgg	ctcaagccat	cctcccacct	caacctctca	15720
ggtagctgag	actgtaggct	tgcaccacca	cactgcgcta	ttttttcttt	tttttttttt	15780
ttaatTTTTg	taggccaggt	gcagtggctt	atacctgtaa	tcctagcatt	ttgggaggcc	15840
aaggtagagca	gattgcctga	gttcaggagt	ttgatgtggt	aaaacctat	ctctacaaa	15900
attagctagg	tgtggtggcg	tgtgcctgta	gttccagcta	ctcaggaaac	tgaggcagaa	15960
ggatcacttg	agcccagggt	gtcaaggctt	cagtgaacca	tgactatacc	acaccaacct	16020
gggcaacaaa	gcaagacct	gtctcaaaaa	tataataata	aataaataaa	gccaggcggtg	16080
gtggctcaca	cctataatcc	tagaactttg	ggaggccggg	gcgggcagat	cacgatgtca	16140
agagatcaag	accatcctgg	caaacatggt	gaaaccccg	ctttactaaa	aatacagccg	16200
ggcacgggtg	cttaacgcct	gtaatccag	cactttggga	ggctgaggag	ggtggatcac	16260
aaggtaaga	gttcaagacc	agcttggcca	agatggtgaa	atcccgctc	tactaaaaat	16320
ataaaaaatta	gccaggcggtg	gcggcaagca	cctgtaatcc	cagctactca	ggaggctgag	16380
gcaggagaat	cacttgacct	gggaggggga	ggtagcagtg	agcagagatc	acgccactgc	16440
attttagcct	gggagacaga	gcaagactct	gtctcaaaaa	acaaaaaaat	tacaaaaatt	16500
agctgggcgt	gatggcggtg	gcctgtagtc	ccagctactc	aggatgctga	ggcaggagaa	16560
tagcttgaac	ccaggaggcg	gaggttgccg	tgagccgaga	tcacgtcatt	gcactccaac	16620
ctgggtgacag	agcaagactc	agtctcaaaa	aaaataatta	attaatgttt	tatagagagg	16680
aggtcttcac	aggttgccct	ggctggctct	gaactcctgg	gctcaggcag	tcctcccacc	16740
ctggcctccc	aaagtgtctg	gattattgat	atgagcctct	gtgcttgacc	caaaacatat	16800
ttattgagcc	ccatcctgtg	cctgtcatgg	ttctatgcac	tgggtgtgca	gtggcgaaaca	16860
agccagacac	agtctctgct	ctaacggtac	ttgtattctg	atgaaggag	gcagaaagca	16920
acaggaaaagc	atatcagaca	gtggtagtga	gagagtgatg	gaggctactc	tagactggaa	16980
cacggaggaa	ggcctctttg	aggaaatgat	ttcttgggtg	tttttgtttt	ggtttgtttt	17040
ggtttgagac	agggtctagc	tctgtcacc	aggctggagt	gcagtagtgc	aatctcagct	17100
cactgcacca	tctgcctgct	gggctcaagc	gatcctccca	cctcagcctt	ccaagtagct	17160
gggaccacag	gcgtactcca	ccatgcctgg	tgaattttta	tatttttgg	aaagacaggg	17220
tttcaccatg	ttgcccaggc	tggctctaaa	ctcctgagct	caagcagtc	tcctacctca	17280
gcttcccaga	gtgctgggat	tatagtgta	agccactaca	cccgaccctt	cttcccatt	17340
ttaacactaa	aagaaaaatta	gaaaaattgg	ccgggcacgg	tggctcacac	ctgtaatccc	17400
agcacttttg	gaggccgagg	cgggtggatc	acaagatcag	gagatcgaga	ccatcctggc	17460
taacacgggtg	aaaccccgct	tctactaaaa	atacaaaaaa	ttagccaagc	gtgggtggcag	17520
gcacctgtag	taccagctgc	tcaggaggct	gaggcaggag	aatggcggtga	acccaggagg	17580
cggagcttgc	agtgaagcga	gatcgtgcca	ctgcactcca	gcctgggtga	cagagcgaga	17640
ctctgtctca	aaaaaaaaaa	aaattagaaa	aattacatgc	ttttctcttg	actgtctgcc	17700
aactatcata	gtaggtaact	ttgggaaatg	gatgcattga	gttctgaaat	ggatgtattt	17760
gagaggtaga	acaccgtgtt	tagaaagtcc	ttgtaggccg	ggcgagtag	ctcacacctg	17820
taatcccagc	actttgggag	gccaaggcgg	gtggatcacc	tgaggtcagg	agttcaagac	17880
cagcctggcc	aacatgacaa	aaccccgctc	ctactaaaaa	tacaaaaatt	agctgggctt	17940
ggtagcacat	gcctgtaatc	ccagctacta	gggaggctga	ggcaggaaaa	ttgcttgaac	18000
ccaggaggcg	gaggttgagc	tgagccgaga	tcacaccatc	gcactccagc	ctgggcaaca	18060
gagcagactc	cgtctcaaaa	aaaaaaaaaga	aagtcagaaa	gtccctgtag	atttctaagc	18120
gtctgtgttt	gtttgttaga	tgcttgttga	cgctcctgct	cagacctggc	tcaggaaacta	18180
cgtcagagtt	gtgccaccgt	ccagcggctg	cagcacacac	tccaacaggt	gcttgaccaa	18240
agagaggaag	tgcgtcagtc	caagcagctc	ctgcagctgt	acctccaggc	tttgagaaaa	18300
gagggcagcc	tcttgtcaaa	gcaggaaagt	aggactctct	gcaggcagag	tcactctgag	18360
aattcagggc	tgatggaggc	gtcccttggg	aggacactat	ttgtgatgta	gccagggccca	18420
ctgaagccgc	ggctgctggg	atgcgggacg	ggcacgtttc	tctcttgccc	ggccagttat	18480
tctggcgagt	tgttcagtgt	gctgtgtggt	cacaccacgt	ctgatctctg	tctcgtgtct	18540
cctttgcaga	gtccaaagct	gcctttggtg	aggaggtgga	tgcagtagac	acgggtatca	18600
gcagagagac	ctcctcggac	gttgcgctgg	cgagccacat	ccttactgca	ctgagggaga	18660
agcaggctcc	agagctgagc	ttatctagtc	aggatttggg	ggtgggcgga	aaccagggtc	18720
actgagctac	agaggaggac	atgccctggg	atgtagtagt	atcatgcaga	ggtgtgtggg	18780

cccttttgtt	cacctctgea	gactgtgaat	cctagctgcc	agtttgecta	ttatatgcc	18840
aggcatttgc	aaaaatctca	ttaatctaaa	tcaaaatagc	tttaaagaaa	aatgcataca	18900
cttcctcaga	tcatcaaaca	gactctggtc	caagggttgg	aatgaaatga	ctgttcctga	18960
cagggaggaa	tagcagggcc	caatcttctg	agatggcttc	tgggtctttc	catggtcaga	19020
gaagatctat	agtccgtcct	gaggtctgtc	aatgtcacag	gaaaaggcaa	acttgagggg	19080
atcgctcgct	gctggctaag	accaggggagc	taaaaacttg	aggaagggaa	cctgcctggg	19140
tgggtgctac	ttctgattea	ttgtccttgt	ccctgtcata	agtacctccc	tattgtagat	19200
agaaggggaa	gaaactgttg	acttgagctt	ggctaaaattt	cctgaagggtg	gaggacctta	19260
gagttgtctc	aagtaaaactt	tccaaggact	tcttctctgtt	ggtgttgtaa	gaaaaggccc	19320
atgcttgtcc	gggcacagtg	gcttacgcct	gttaatgccca	gtactttggg	aggccgaggc	19380
agggtgatca	cctgaggtca	ggagttcgag	accagcctga	ccaacatggc	gaaaccccat	19440
ctctactaaa	aatacaaaaa	ttagcctggc	atgggtgggtg	gaggctgaag	caagagaatc	19500
acttgaaccc	aggaggtgga	ggttgcgtga	gctaagatcg	cgccactgca	ctccagcctg	19560
ggcgacaaga	gtgaaactcc	gtcttaaaaa	agcccatggc	aggctggggc	cggtggctca	19620
cgctgtgaat	cccagcactt	tgggaggcca	aggtggggcg	atcacaaggt	caggagatcg	19680
agaccatcct	ggcgaacacg	gtgaaacccc	gtctctacta	aaaaaaatac	aaaaaaatta	19740
gccaggcggtg	gtcgtgggca	cctgtagctc	cagctactca	gggggctgag	gcagggaat	19800
ggcgtgaatc	cgggaggcg	agcttgacag	gagccgagat	agtgtcactg	cactccagcc	19860
tgggtgacag	agcgagactc	cgtctcaaaa	aacaaaaagc	ccgtggcaat	taatggtaaa	19920
ggaaacccgg	catttcagtg	taaagaggtg	acataaacgg	atactgcctc	attgcactcc	19980
ccaaaagaga	gtcaggagag	cagcaggaga	ggcgacacaga	aggcccagtt	ctcaggggtt	20040
tttattcttg	ctgcagttgg	ttaccaagga	agaccccaaa	gcactggctg	ttgccttgaa	20100
ctgggacata	aagaagacgg	agactgttca	ggaggcctgt	gagcggggagc	tcgccctgcg	20160
cctgcagcag	acgcagagct	tgcattctct	ccggagcatc	tcagcaagca	aggcctcacc	20220
acctggtgac	ctgcagaatc	ctaagcgagc	cagacaggat	cccacatagc	agcagcggga	20280
agtgtgccaa	ggaagctctg	tggcgttgtg	ttattggtag	acaccctcag	cctcatcatt	20340
tgactaccta	tgtactactc	tacccctctg	cttagagcac	cttccagaga	agctattcca	20400
ggctcaca	tacgcggttc	caccaatttt	ttttttagcc	ccaccagctt	caggacttct	20460
gccaattttg	aatgatatag	ctgcaccaac	aatatcccg	ctcctcta	tacatatgat	20520
gttctctgtt	caaaaagta	tggcagtgat	tggccaggcg	cagtggctca	cgctgtgaat	20580
cccagcactg	ggaggccgag	gggggaggat	cgtgaagtca	ggagatcgag	accatcctgg	20640
ctaacatggt	gaaacccctg	ctctactaaa	aatacaaaaa	aaattagcca	gccatgggtg	20700
cgggcgcctg	taatcccagc	tacttgggag	gctgaggcag	gagaatggca	tgaacctggg	20760
aggcagagct	tgagtgagc	ccactgcact	gcagtgagcc	ccagcctggg	caacagagcg	20820
agactccgtc	tcaaaaaaaa	aaaaaaaaaa	agtaattggc	agtgactatg	ggcgactg	20880
ctaacattta	gccttgcccc	atatggaaca	tgttaaaaaa	aaaaaaagcc	aggccgagcg	20940
tgttggtcca	cgcttgta	cccagcactt	tgggaggccg	aggcgggtgg	atcacgaggt	21000
caggagatcg	agaccatcct	ggctaacaca	gtgaaacgtg	tttttactaa	aagtacaaaa	21060
aactagctgg	gcgtgggtgg	aggagcctgt	agtcccagct	actcgggagg	ctgaggcagg	21120
agaattgctt	gaaccggggg	ggcagaagt	gagattatgc	gagattatgc	cactgtactc	21180
cagcctgggt	gacagagtga	cactctgtct	caaaaaaaa	aaaaaaaagg	ataggcacga	21240
cagtggctca	cacctttgat	cccagcactt	tggaggccga	tgcaggcgga	tcacatgagg	21300
tcaggagtcc	aagaccaacc	tggccaatat	ggtgaaaccc	cgtctctact	aaaaatacaa	21360
aaattagctg	ggcatgatgg	cgggtgcttg	taatcccagc	tactcggtag	gcagaggttg	21420
cagtgaagctg	agagcgcacc	actgcactcc	agcctgggtg	acagagctag	actccgtatc	21480
tcaagaaaaa	aaaaaagttt	tgttttgttt	ttttgagaca	gagttctact	ctgtcaccta	21540
gtctggagtg	cagtggcaca	ttctcggtct	actgcaaccc	ccacctccca	ggttcaagcg	21600
attctcctgt	ttcagcctcc	tgagcagctg	ggattacagg	cacgtgccac	catgccggcg	21660
taatttttgt	atttttagta	gagacagggt	tttgtcacat	tggccaggct	ggtctcaaac	21720
tctgacctc	aggtgatcca	cccactcag	cctcccaaag	tgctgggatt	acaggtgtga	21780
gccaccaccc	ctggccagaa	aaaaaagctt	ttaataaag	taattgtcag	cttaggcaac	21840
atagcaagac	cctgtctcta	caaaaaaaa	atttaagtta	gccaggcatg	gtggcactga	21900
cctataatcc	tagctactct	ggaggctaag	gcgagagtat	cacttgagcc	caggagctca	21960
aggctgatca	tgccaccata	ctccagcctg	gatgatagag	taagacccta	cttttttttt	22020
ttttttttta	aaaaggtaac	catcaagggc	aatgaaaaga	aatggctcgta	tttccaattc	22080
attatcctta	ttctgaagat	agtacggcag	aattttaagc	agagatagtg	gtgaagatgg	22140
tgacattata	gagtggtgac	tatggccaca	atcttgtttc	tccagttaat	gaattttttt	22200
atgtgtttgt	ttaaaagata	atattaagct	tgtagaccat	agggacatac	ggagagtcca	22260

ttgctaatat	ctcactcagt	atttgtgaaat	tctatctcac	caccgtgaaa	ctcttcagtt	22320
ttctaattgc	tttatcagca	gggggtataa	aagggtcatga	aagcaatttc	cacatgctgt	22380
ggctccagggt	ctctgggtgt	gaagcagagc	aagcctgggt	tgtcctcctc	ctgtctccac	22440
acagacgggt	tctgcagggt	tggtaatcta	cagtacactc	cttgcaggga	aaaggtgatg	22500
agtcacatg	gacttatctg	accacttttt	atgcatgctt	agaggaaaac	agaatactgt	22560
taagagattc	atctgctagt	tattaagtaa	agaaatatca	caataggccg	ggcgcagtg	22620
ctcacacctg	taatcccagc	atcttggggag	gccaagggtg	gcggatcacc	tgaggtcagg	22680
agttcgagac	cagcctagcc	aacatgggtga	aaccccgtct	ctactgaaat	tataaaaaat	22740
tagccgggtg	tagtggtaca	cgcctgtagt	cccagttact	tgggaggtcg	aggcatgaga	22800
attgcttgaa	cccaggaagt	ggaggtggag	gtgagccgaa	attgtgccac	tgtactccag	22860
cctgcaacag	agtgcagcac	tgtcacacaa	aaaagaaaaga	aatatcacia	tatgtcacia	22920
taggccgggc	gcagtggtct	acacctgcag	tcccagcact	ttgggaggcc	aaggcagatg	22980
gatcacctga	ggtcaggagt	ttgagaccag	cctggccaac	gtgacaaaac	ccagtctact	23040
aaaaatacaa	aaattagcca	ggcgtgatgg	tgggcacctg	taatcccagc	tactcaggag	23100
gctgagacat	gagaatcgct	tgaacccagg	aggtggagat	tgactgagc	tgagatcctg	23160
ccactgggct	ccagcctggg	tgacagaatg	agactctgtc	tttaaaaaaa	aaaaaaaaag	23220
aaaatcacaa	taagtcctag	g				23241

<210> 85

<211> 23241

<212> DNA

<213> Homo sapiens

<400> 85

ataataaaact	gtcactgttc	tcatcatgaa	tgaatctcaa	aaatatgtgt	taagtaaaag	60
aagcctggga	gactgagggt	ggaggctcac	ttgaggtcag	gagttcaaga	ccagcctggg	120
cgacacagcg	agacccgacc	tctacaaaaa	ataattagct	gggcatcata	gtgcatgact	180
atagtccag	ctactcggga	ggctgaggct	ggaggatcac	ttgaacccag	gaggtcaagg	240
ctacagttag	ctgtgataac	acctctccac	tccagactgg	gtgacagagt	aagaccctgt	300
ctcaaaaaac	aaacaaacaa	acaaacaaaag	tttaaggctg	gacgcgggtg	ctcccagcac	360
tgtgggaggc	cgagggtgggt	ggatcacttg	aggtcagggg	ttcgagacca	tcccggccaa	420
catggcaaaa	ccctgtctct	attaaaaata	caaaaaaatt	agccaggcat	ggtggcgggc	480
cctgtgaatt	ccagctactt	gggaagctga	gacaggagaa	ttgcttgaac	ccaggaagcg	540
gaggtttag	tgagccaaga	ttgcaccact	gcactccagc	ctgggcaaca	gagcaagact	600
ctgtctcaaa	caaaaaaaa	aaggaaggaa	aggaaaaaaa	aaaaagacta	aagagacaaa	660
tcaatgcaat	ctctgtttct	tacttagatt	ctgatttttt	tttaagtgtg	aaattttagt	720
gcagattctg	ttttaataaa	tactatttat	caacacttaa	atttcttctg	tgataatgat	780
attgtgggtta	tacaggggaa	taaccttact	cttatgagag	ataagggtgaa	atattctagg	840
atgaaatata	cttgatgtct	gtaacttacc	ccaaatcctt	ccaaaaaaaa	aaatatatat	900
atagagagag	agagagagag	aaagagagag	agagactgac	ataaagcaaa	ttcagcaaaa	960
tgtgaacagt	gcactcttgt	taagttttta	tgggaatttt	acagaagttc	tcagtattat	1020
cctttcaact	tttctatacg	tgagaaattt	ttcaaaaata	aaagttgagg	ccaggtgcca	1080
ggctcacacc	tgtaatccca	acactgtggg	aggccgaggc	aggtggatca	cctgaggtca	1140
agcattcaag	actagcctgg	ccaacatggc	aaaaccccat	ctctactaaa	aatacaaaaa	1200
aattagctgg	gcatgggtgg	gggcacctgt	agtcacagct	actcaggagg	ctgagacagg	1260
agaatcgctt	gaacccagga	ggcagaggtt	gcagtgagcc	gagatttgtc	cactgtactc	1320
cagatcggga	gacagagcaa	gactccgtct	caaaaaaaa	aaaaaaaaaa	aaaaagttag	1380
ccaggcgtag	tggcacacac	ctgtagtctc	agctactcag	gaggctgagg	caggtgaagc	1440
aggagaaccg	cttgaacctg	ggaggtctgag	gttgcagtga	gccgagattg	agccactgta	1500
ctccagcctg	ggcaacagag	ggagactcca	tctcaaaaac	aaaacaaaac	aaaaaaaaaa	1560
aacattgaga	gggcaaatat	cttgtctgac	ctgctgttat	tcaagagttc	aacagactct	1620
caaaactaca	tgtaaagact	gggagaagaa	aactaactct	gagcaactac	tatgcagcag	1680
gtgctcttca	catctgtgat	ttcagtcaac	actaaaagg	taattatttt	ttattttatt	1740
tattttattt	tttaagtata	gggttgcaat	ctgttgccca	ggctggagta	caggggttta	1800
ttccatatat	tgatcatcgt	gcactacaga	ctccaaactc	tgggtcaag	caatcctcca	1860
gctcagctct	cctgagtagc	tggaactaca	gacatgcacc	accacaccca	gctttaagg	1920
taactattat	tgtctctcgt	ttacagagga	gaaaacatac	tcagaaaggt	ggagtataaa	1980

gtccaatagt	tgtgagtgat	gaagttccac	caaaacctgc	caggatgcga	agccatgctc	2040
ttccactctt	tcactctgct	cttctccctg	cctgcttctg	tagcctctca	atgcaaaatt	2100
tactgtaccc	agtgaacctc	cacagatagg	aaatctacct	tctgcaataa	tactcgatac	2160
tcagtaactg	tgaagtaatc	agattgaacc	atgcctctgc	tgttcagcga	aggaagaaaa	2220
gctagtagga	aagttgggaa	atagagataa	cgtttctcat	tcctacgggc	tccaacgtgt	2280
acacactaga	aaggacttca	atgagagatc	agccatgctg	gctgggcgtg	gtggctcatg	2340
cttataatct	cagcactttc	tctctctctg	tctcttcccc	cgccccaaa	cagggtattg	2400
ctctctcacc	caggctggag	ggcaatggca	caatcaccgc	tcactgcagc	ctcaacctcc	2460
caggcccaag	tgatgctctc	acctcagcct	ccaaagtagc	tggaaaccaca	ggcaagcact	2520
accatgcctg	gctaattttt	taattttcag	taggaacgag	gtctccctat	attgcaaagg	2580
ctgggtctcaa	actcctggcc	tcaagcgatc	ctoccaaactc	agcctcccaa	agtgtctaga	2640
ttacagggtat	gagccatcac	gcccagccag	gaactcacca	ctacaaaaat	tgttttaaaa	2700
atacattagc	caggccaggc	acagtggctc	acacctgtaa	tcccagcact	ttgggaggcc	2760
gaggtgggag	gatcacgagg	tcaggagatc	gagaccatcc	tggctaatac	ggtgaaacat	2820
cgtctctact	aaaaatgaaa	taaaaaaaaa	atagccgggc	gtggtggcag	gtgcctgtag	2880
tcccagctac	tctggaggct	gaggcaggag	aatgggttca	acccgagagg	cggagcttgc	2940
agtgaattga	gatcgccaca	ctgcactcca	gcctgggcga	cagagcgaga	ctctgtctca	3000
aaaaaaaaaa	aaatacatta	gccaggcatg	gtggtgcaca	cctgtagtcc	cggttactca	3060
ggagggtgag	acgaaaggat	tgcctgagcc	tgggcgggca	aggatgcagt	gagccatgat	3120
cacaccaccg	cactctgggtg	acagagttag	accctgtctc	aatcaataga	tcaaccacat	3180
aaaacagagc	aatgtgggga	acacagaaca	aaggaagcaa	taaatgaaat	tccagcaagt	3240
cgtcttgagg	atagactaaa	aagactatac	cattatgaaa	aagtaagtat	gttctgaaa	3300
tgcaaaagtc	atgaaggaca	gctagaataa	acactagcat	tcagggcatt	ccttgaaatt	3360
ttaaggaatt	acttctgaat	aaaagaactt	tactagacaa	gtagtcaaca	catgaaaaat	3420
cataccccaa	aagatgtcgt	aatagaactt	gaagaaaggt	ttagatccat	ttgtgagtga	3480
aaactcagag	cttattaaat	tgaataataa	taataataga	caacacattg	tttcaggcac	3540
tgttctggca	tttttacata	aataactcat	ttaaggccag	gtgcagtggc	tcacgcctgt	3600
aataccaagc	tctttgggag	gccgagggtg	gcagggtacc	tgagggtcagg	agtttgagac	3660
cagcttgctc	aatatgggtga	aaccccattt	ctacttaaaa	aaaaaaatta	gccaggcctg	3720
gtggtgcata	cctgtagccc	cagctacttg	ggaggctgag	gcaggagaat	cacttgaacc	3780
tgggaggcgg	aggttgacgt	aagccgagat	cgcgccactg	cactccagcc	tggtcaacag	3840
agtgcagactc	ggtctcaaaa	ataaataaat	aaataaataa	ctcatttagt	cctcagagca	3900
actctgtgag	ataggtccta	gtattttccc	tgttttgcac	atggagaaat	taagctaga	3960
aaaataagtc	agatctgtcc	gagatgacat	tgtgtgtaag	ttagtgaggt	taggattcca	4020
agccagtggg	tctggcttta	gagcctatac	ttgtaacccg	tattctacac	tgccctctca	4080
gggaagagaa	ggttatccac	ctttaatagc	tggaaaccag	agattgatat	gacaaggcta	4140
accaacaaac	tttctgtgaa	agacagaata	ctggctcagc	cccacagttc	taaccctaca	4200
caacaaggcg	tgggggaatt	agctaaacaa	tcctttcaat	cctactctgc	tttaatcgga	4260
gaaatgggaa	actggattga	tcaagacttg	aaaatgaaac	aggcaattgc	tgaagagcat	4320
tggttcattc	aaaaagcgtg	catttgcctc	ttgttagata	gccatagagt	ctgttatgaa	4380
aagttcaagt	tttggccagg	cactgcagct	cacgcctgta	atcccagcac	tttgggaggc	4440
tgagggtgggc	ggatcatgag	gtcaggagat	caagaccatc	ctggctaaca	cggtgaaacc	4500
ccatctctac	taaaaacaca	aaaaattagc	tgggcatggt	ggcgggcgcc	tgtagtccca	4560
gctactaggg	aggctgaggc	aggagaatgg	cgtgaaccca	ggaggcggag	gttgacgtga	4620
gcagagatcg	cgccactgca	ctccagcctg	ggtgacacag	cgagactctg	tctcaaaaaa	4680
aaaaaaagaa	aagttcaagt	ttttcccca	ggctgccagc	atgttctgtg	gcaatcctac	4740
ctccaccagc	tttggaaagg	agggcaagg	agaagcagag	ctgaaaaatca	aacaagtgat	4800
ggccatgccc	ccttaaaggga	ccttagatcc	ttttctatta	aatacatata	cagagagggc	4860
aaacttgcaa	aaccaaaaga	atccttgggc	ataacagtgg	ctccaagtgg	caagattttt	4920
agtactgttt	acagcactgg	caaattaaat	gtcctataag	aatcagggaac	agagccgggc	4980
acggtggctc	acgcataata	tctcagcact	ttgggaggct	gaggcgggca	gatcacttga	5040
agtcaggagt	ttaagaccag	ctggccaac	atggtgaaac	ctatcgctac	taaaattaca	5100
aaaattagtc	aggtgtgggtg	gcaggcaccc	gtagtcccag	ctacttggga	ggctgaggca	5160
ggagaattgc	tcgaacccgg	gaggcagtga	gccgagattg	cgccaatgca	ctccagcatg	5220
ggcgacagag	agagactccg	tcttaagaaa	gaaaaaagaa	tcagggaactg	aggacacctc	5280
tcaatcccag	cctgtgggca	ttcctaacac	aaaacaattc	agagaaaccc	agaccccaag	5340
atgccttagt	atttcagcaa	actaaatgtg	gtaaggcaag	aaaggagagg	ccctcctctc	5400
gagacacttg	ccaaactcca	gaacacctga	cagtgagaag	gccagaatca	gtccttgtta	5460

tctcccatgt	tttacaatca	agacatcttc	tctctgaatc	attcacactg	ctaatagaaa	5520
ctgggtatggg	ggaacacacc	aactccttta	agttcaattc	ttgtaacaga	cgtgcagaat	5580
aagacagtaa	gaaacactaa	gcggtgggtct	tctgcctctg	aaggaagtga	aatactagta	5640
agttgctgaa	aactccttaga	ggtgcttcaa	ggagatggga	gaggaggaat	gaggcccaa	5700
gttgaaacta	ttttcttctt	cctcattcta	atcctaacta	aactcaaaaa	tgtatggatg	5760
actagtggag	tcacacaggt	tcaatacagg	ctcaacagag	cacacgattt	ggggcatgtc	5820
acaaaccctt	agtattcatt	tctgtgaaat	ggaggttagt	agcctgcact	tcataaagg	5880
tgtagtgaac	actaaacgag	ataatagatg	taattttgtg	tcaacatgac	accacacagg	5940
cagttaaatg	taagatgtct	cttagccctt	ttctcctcac	ccccaccctac	cccacctttg	6000
gactataaac	cccttcggag	accttatcat	ccactgcctc	ccggccgcag	aggcacaggc	6060
gtcaacgctg	gtccttatgg	tccccttatt	ggagtgggat	ttgtctgaat	ctgcaggtga	6120
aaagctagag	cggagccctc	ggccaacaaa	accaaacc	gggaagcgag	gatgggtcct	6180
cagccaaaag	cttggtggcg	tctgttagtc	acagtgcgtc	cctttcctat	caacgcactg	6240
agagggctcg	actagattat	ttctgactat	ccaacttgac	gagagaagcg	caaagtgac	6300
cacagatgaa	gaggctggca	gccgctccag	gaggctgagg	ccgtgagggg	gtgggaaccc	6360
taatggaaac	agggccctcc	ccggagggac	agccgggaac	gatcgatcta	tcctctcctt	6420
ctcaagccct	cgcagctcaa	ggctggggac	ttcccaagg	tcccgtcacc	ctccccaa	6480
agctcaagt	ggaccagagg	tgctggcagg	cggaagtgg	ggacccgggg	gcacagccaa	6540
acaccagagc	ccgggctccg	gaatgtggtc	aaagaggggt	caccgggggg	aggggcccgg	6600
tggggaggac	ctggggagg	gcggggctca	ggagggggca	agaggtcggg	gtccccagct	6660
tcggagactc	ggggtcccta	cccggctccc	agccgtatgc	tgagcgcccc	ctccagccgg	6720
ggtctccgcc	gcacagcg	gcagtcacc	tccccttacc	tggtcgggt	gctctgctt	6780
ctccgaggac	gccatcttct	tgaggcctga	ctaataacc	gccgctgggc	gaggtttctc	6840
ccaggcgccc	tcgctctcgc	cctcccgc	agactaagg	agccggaaca	gagcctgtcg	6900
atgtagggga	ctggggcaga	ggggtggagc	ccgggtgtcc	gggtcacctt	gcatagtctt	6960
cgtaaagact	ctgctttcca	ggaagatccc	aagtctatat	cttctttg	ttgttatatg	7020
tgtattattc	tggttttgct	ttttttttt	gagacggagt	ttcgcaattg	ttgcctaggc	7080
tggagtgc	tggcgcgata	tcggctcacc	gcaacctcag	cctcccggtt	tcaagtgtat	7140
ctcctgcctc	agcctcccga	ttagctggga	ttgcaggcat	gcgccaccat	gcccggctaa	7200
cattgtattt	ttagtagaga	tggagtctct	ccatgttgg	caggctgctc	tcgaactccc	7260
gacctcaggt	gatctgccc	cctcggcctc	ccaaagtgtt	gggattacag	aagtgagcca	7320
cagcgcccg	cccatattat	tcttatttag	ttaatctctg	cccatcccca	cagtgccatg	7380
ggcacattta	gggacttgcc	aatggatgaa	tgcgaagaaa	cttggaatt	aatttttaga	7440
catcagttca	gttcattca	ttagctgctt	actatatgct	agggactttg	gtaggccttg	7500
aaataaaaa	attcaagact	caatccctac	tcccacgccc	aggccaaaca	cacttacaat	7560
tacagtatta	tggggatagg	actcggataa	gtgtgcagg	ctattgggag	aacataaaag	7620
ggggcatttt	gaagagaaga	ggcttctaca	aaacgtcatt	attttacact	ggttgaattg	7680
ttagattttt	ttaattgtta	gattttaaat	taaatattgg	acgggagcag	tggctcacac	7740
ctgtaatccc	aacactttag	gaggccaagg	caggaggatc	ccttgagccc	aggaggttga	7800
ggctgcagtg	aactatgatt	atgccactgc	actccagcct	gggcgacaga	gcgagacctt	7860
gtctaaaaat	aagataagaa	aataaaaaat	gaaattatat	gaaaaaggat	acatacatta	7920
gagttaaccg	ccagctccta	ttatagttgt	gttttgatca	atatagactg	cttaaaagg	7980
atgacttaat	gaataattcc	tcctactaaa	cgctgtttta	aatgtctaaa	cttttcttga	8040
gataatatcc	aatttctctt	cccacgtttt	ttttgtttgt	ttttgtcttt	gtttttgttt	8100
ttgcttgaga	cgaagtcttg	ctcctgacgc	ccaggctgga	gtgcaatgg	gcgatctggg	8160
ccgactgcaa	cctccgcctc	ccgggttcaa	gcgattcacc	tgcttcagcc	tcccaagagc	8220
tgggactaca	ggcgtgcgcc	atcacgcccc	gctaattttt	gtatttttag	tagagatagg	8280
gtttcaccat	gctggccagg	ctggtctcaa	actactgacc	tcagatcatc	tgtccgcctc	8340
ggcctcctaa	agtgtcgaga	ttacaggggt	gagccaccgc	ccccggggcc	cttgcccacg	8400
tttttataaa	caaaatatga	ggtgggagga	ctgcttgagc	ccaggagatc	aaaactgcag	8460
tgagccatca	tcgcgccact	gcactccagc	tggggagaca	gagcgaaacg	ctgtctcaaa	8520
aaaagaaaaa	agaaacaagg	aaggaaagt	tccccgaat	gaataaatat	gagcagataa	8580
ttacttctag	tttacataaa	atgccctctt	ttaagagagg	aactttttga	tcatttttat	8640
tactattctt	ttaatcttag	atgtttat	ttcaggagga	aaaaacaaa	cttttccata	8700
gtagcagtat	taaaacaaag	atgaatatgt	tgtcaagagg	catctgaaca	atctccaa	8760
gtgccgagtc	gcatttcccc	tttctctccc	atgcatcttg	agactttaat	gcttactata	8820
tttattttaag	cgttttgttc	tgagacccca	aactaatctg	cacagttgaa	gcaggaaata	8880
gaatgggtgg	aaacatgcgg	gtgtctgtat	tagcattatg	catctcatat	gcgaatagga	8940

atgctctaaa	aattcaatac	agtatacatg	cgtgtgcatac	gtcatgcaaa	ataagtctct	9000
attggcctta	tatttgaacg	cgcgaatgca	gctcctaaaa	gttaaaaaaca	actcctaggc	9060
tgaatcgcg	gatagaacga	aagcggcctt	aaacccagag	actacagttt	ccggcatgct	9120
tcgacgccac	acgtgattag	cggcaactag	aactacattt	cccggcggtg	cctggctca	9180
cgtgtgattt	gctgcggaac	gaactacatc	tcccggcagg	ctgcggaagg	gggtcgagta	9240
gaaggaccgc	cgctccggcc	tcccgcgact	tctcgaaggt	gggcagggtc	cacctgtggt	9300
aggatggagg	tgaccgggga	cgcgggggta	ccagaatctg	gcgagatccg	gactctaaag	9360
ccgtgtctgc	tgcgcgcgaa	ctacagccgc	gaacagcacg	gcgtggccgc	ctcctgcctc	9420
gaagacctga	ggagcaagg	ttggctcggg	accccgggcg	aggggtggtg	ggagccagg	9480
ccgggtgagg	acgtccggcg	ggggcgaggc	ggggtcagga	gaggcgactt	ggggattctt	9540
gtatctcggg	tggaggcttg	ggacagaaac	ggtcggagtg	ggcatagcga	tttacagatt	9600
taaggcgctt	gagcgtaatt	aatctcgtgt	gagactccac	ggtggtggga	agacagccag	9660
gaagcaatgt	gcaaattaag	ccagactcgg	cttaggtctc	ttgcctgaaa	tcacttcgat	9720
gttggaccaa	acggacccca	ctgggttcct	gccactccgc	cacactcaga	tggtagaaga	9780
acccccagct	gagccccacg	cgggtgtggg	aggggtttcc	accgtccgct	ctggcaggaa	9840
cctatgcagg	aaagagggag	ctgctactga	ccatttctgg	aggtccagac	aaggaaactg	9900
agttgtaagt	gacggagccg	acggaagttc	ggcggccggc	cccatacctt	taccagctgc	9960
ttggccttgc	acttaaccag	ctctcaaccc	tcagttttct	catcagcaaa	ttgggtataa	10020
tatttatagc	cctgcttcaa	agggttgttg	gttctctcaa	ataagatgat	atatttaagt	10080
gacttacaag	tcttatttag	cagtagcaac	aaatcgctta	cccaaagaag	ttttacaggt	10140
tacatgtgtg	agccagcccc	aggcatgtag	tcacagtgtg	tgtagagggg	cacagttgct	10200
tctctcag	caccaacaga	aatcatatgg	aaattttcag	agacccatga	acagccaaag	10260
cattataaat	gctttggtaa	catggatttt	cgatataagc	atttatgtat	tttttttctt	10320
gacattagat	tactttactt	ctaattcccc	ttcagtgcgc	tggttggtat	tgctgggac	10380
agaggctggt	gttctctgca	gtccagcgca	tacatgcctt	gctgttctat	tggttggtag	10440
acaacaccgc	tgaaggatat	ttgtagtctc	ttggctat	ctgatcactc	cagtccggt	10500
agtattgaa	gcattgctat	cactaaatgg	aatagtacag	acctgtcctg	gagaaagcct	10560
tccgcctaat	tgaatgata	tgaaaagcta	ctgatagaag	cttccacttc	ttttatactt	10620
tcccataggt	tgaataagaa	gctgctaagg	aagatactgt	aaagaacaaa	aagcattttc	10680
tttttttttt	tttttttttg	agacggagtg	tcactctgtc	acccaggctg	gagtgcagtg	10740
gcgctatctc	ggctcactgc	aagctccgcc	tcccgggttc	actccattct	cctgcttcag	10800
cctcccgagt	agctgggact	acaggcgccc	accaccacgc	ccatctaatt	ttttgtattt	10860
tttagcagag	acgggttttc	accatgttag	ccaggatggg	ctcgattgcc	tgctttgtga	10920
tccaccggcc	tccgctccc	aaagtgcctg	gtgagccacc	gtgctggcc	gtgctggcc	10980
tttttgggtg	attttttgac	atttttacac	ataggagaat	ttaagaggac	aactgagggc	11040
cgggtgcggt	ggctcacacc	tgtaatccca	gcactttggg	aggccgaggt	gggcggatca	11100
cgagggtcagg	agatcgagac	catcctggct	aacacgggtg	aaccccgctc	ctactaaaaa	11160
tacaaaaaaa	ttagccgggc	gtgggtgggtg	gcgctgttaa	tcccagctac	tccggaggct	11220
gaagcaggag	aatggcggtg	acccgggggg	cggagcttgc	agtgaagcca	gatagcgctt	11280
gggcactcca	gcctgggcga	cagagtgcgc	tccgtctcaa	aaaaaaaaaa	aaaaaaaaaa	11340
ggaaaactga	ataaatgaat	gagagactgc	ttgtttgcaa	ggaatcaaac	tagactttga	11400
ttggttggtt	actccagtaa	aaactcaaat	gcctaccata	catgagtgtg	gagttagctg	11460
agtaaacata	ctttcaggag	ccagactttg	tgggtttaaa	tcccagcttt	gccacttact	11520
gtgtgatctt	agacaagtta	cttaacctct	ctgagccttg	ggttcacatc	ctataaaaaa	11580
gaactaataa	aagtacctac	tttacaggat	tattatgaga	ttaaatactg	tatatgaaa	11640
gcacttaggc	caggcgcggt	tgctcatgcc	tgtaatccta	gcactttggg	aggccgaggc	11700
aggtagatca	ttaatgcggg	agttccagac	cagactggcc	aagatggtga	aaccccgctc	11760
ctactaaaaa	tacaaaaatt	agccaggcac	ggtggccggg	gcctgtagtc	ccagctactc	11820
gggagactaa	ggcagagagt	tgcttgaacc	cgggaggcgg	aggttgctgt	gaaccaagat	11880
tgtactactg	cacgccagcc	tgtctcaaaa	aaaaaaaaaa	agaaagaaag	aaaagcactt	11940
agggctgagc	acagtggctc	atgcctctaa	tccagcact	ttgggaggcc	aaggcggtg	12000
gatcatgagg	tcaggagttc	gagaccagcc	tggtcaacat	ggtgaaacca	cgtctctact	12060
aaaaatacaa	aaattagccg	gacatgggtg	tgacgccta	taatcccaac	tactcgggag	12120
gctgaggcag	gaaaaatcact	tgaacctggg	aggcagaggt	ttcagtgcgc	cgagatcgcg	12180
ccagtgcact	gcagcctggg	taacagagtg	agaccctgct	acaaaaaaaa	agaaaaagac	12240
acttagaaca	gaatcaggca	cgtgatgagt	gttctggtag	tgctagaagt	gatgattgtg	12300
attctagtta	ttacctacca	ggagttctgc	tcagctctgg	agccatacat	acttgagatg	12360
cagggataga	tgtaatttcc	ttacgggtat	ttgtcatttg	ccaaatattt	tattcttttc	12420

agcctgtgac	attctggcca	ttgataagtc	cctgacacca	gtcaccctgg	tccctggcaga	12480
ggatggcacc	atagtggatg	atgacgatta	ctttctgtgt	ctaccttcca	atactaagtt	12540
tgtggcattg	gctagtaatg	agaaatgggc	atacaacaat	tcaggtaaga	aactctagcc	12600
atgtataaaa	cggcctatgc	agtacagcat	ccatcatgat	tactttcact	gcacagacaa	12660
ttgccatttg	tctggctttt	taagcatttg	ttcaacagat	atttactgag	cactttctat	12720
gtgccagaca	tgggtgctgag	tcctggggat	aaagatgaat	gaggccaggc	acgggtgggca	12780
gatcacctga	gctcaggagt	ttgagaccag	cctggccaac	atggcgaaag	tccatctcta	12840
ctgaaaatac	aaaaactagc	tgagcatggt	ggcaggcacc	tgtaatccca	gatacttggg	12900
aggctgaggg	gggagaattg	cttgaacctg	ggaggtggag	gttgcaagtga	gctgagattg	12960
tgccactgca	ctccagcctg	ggcgacagaa	cgagactctg	tctcaaaaaa	aaaaaaaaat	13020
agatgaatga	gacatggggc	cagttctcaa	ctaactcatg	gacagacagc	aactgaaatg	13080
cagcctggca	gggagctcag	tgctgcaggc	tgcagtccag	ctgttgagggt	ctggatcctg	13140
gctctacccat	ttactaacca	ggtgaccttg	tgcaaattac	ataacttctc	agtgccctgt	13200
tgacataata	attatagaac	ctgtccccta	agattgttgt	aaagataata	tagtacatat	13260
caaaccaggg	tttctcaatg	acactgctga	catttggggc	tggagttgtg	aagaggatgc	13320
tttgtgtatg	ataggacgtt	tagtagcatc	ctagatgtta	cgaacctccc	cccacaactg	13380
tgataaccac	gaataaatga	ctccagatat	tgtcagatgt	ctcctggggg	gcaaaatttg	13440
tcccacttga	gaaccactga	tatgaagtgt	ttagatctta	cctggcacat	agttaaggac	13500
tcaataattg	ttacctgtcc	ctgccatcat	catcatcaca	ggagatagaa	aggggactaa	13560
cattggtgac	caaggatcaa	gaagtgtctt	gagaggggat	tagttttagg	gagggactta	13620
aaaaaaaaaa	aagtgtcctg	aagtgtgcca	caaaattgag	gaagtcatcc	tacagcagtg	13680
gccttaccag	ccacctttgt	gctcaggcct	aagggacagc	aatcgatggc	tacagctctg	13740
ccagttaaa	aagggaaccaa	tccccaagca	cagagaaatg	ctgggcacaaa	tgaccgtttt	13800
cgtataaaaa	acaggacaca	cctggacaca	cagaaaccag	aaagggaggt	gtgattggat	13860
tccttgtagg	tgtgaccaca	cattgggttt	aaatggcttt	ttctatggaa	gaatacagag	13920
ccgttgacac	cagagataaa	gatgaaagag	ggtcaggcac	ggtggcttat	gcctgtaatc	13980
ccagcacttt	gggagaccga	ggtgggcaga	tcacttgaag	tcaggagttt	gagaccagcc	14040
tgggccaacac	ggtgaaagcc	cgtctctact	aaaaatacca	aaattagctg	gtcatggtgg	14100
tgggcacctg	taatcccagc	tacttgcaag	gctgaggcag	gagaatcgct	tgaactcggg	14160
cagtggagggt	tgcagtgagc	caagatcggt	ccactgcact	ccagcctggg	caacagagtg	14220
agactctgtc	tcaaaaaaaa	aaaaaatgaa	agaagagggg	aaatcaagggt	cctggatgga	14280
tattgaccct	cctgtgaatc	cttgagataa	gatgcttctt	tcccattgaa	attaatctag	14340
atcctcaaga	ggtctgtgtg	tgtctggggg	ggaggtgaaa	acagcacttc	aggttgttct	14400
gtgactggca	ttttctccca	tgtgtcagat	ggaggtacag	cttggaatttc	ccaagagtcc	14460
tttgatgtag	atgaaacaga	cagcggggca	gggttgaagt	ggaagaatgt	ggccaggcag	14520
ctgaaagaag	atctgtccag	catcatcctc	ctatcagagg	aggacctcca	ggtaaagcct	14580
cctccacac	ctgcaacaat	gttcatccag	cctctgcccc	ccgccccagc	accttcttag	14640
cttccatact	tgccatagca	atctctttgt	tttaattctta	atttttaaat	aattcttaaa	14700
ttacaactaa	gatttttcat	cttctcattc	tcacctagag	taatttttca	accctcgtca	14760
cgaagcagaa	ttacctgtgg	attttttttt	tttttttttg	tttttttgag	acacagctct	14820
actctgtcgc	ccaggctgga	gtgcagtggt	gcaatctcag	ctcactgcag	tctccacctc	14880
ccgggttcaa	gcaattctcc	tgtctcagcg	tcccaggtag	ctggaattac	aggtgcacac	14940
caacacgcct	ggctaatttt	ggtattttta	gtagagacag	cgtttcatca	tggtggccag	15000
gctgctcctg	agtccaagtg	atccacctgc	ctcagcctcc	caaagtgtctg	agattatagg	15060
cgtgagccac	cgtgcccggc	cagatttttt	ttttaataca	aatgcctggg	atccacccta	15120
aacctagtta	ggtggacgct	gggttcagggt	atgccctgct	agagaatgta	gcgttgagggt	15180
agatggcttc	acatcccagc	gctgtcacca	cgactttgag	ccagtagctt	agcttctctc	15240
cttgtgtttt	ctctctagta	agattgggat	aggccagggtg	cagtggctca	cgctgttaat	15300
ctcagcactt	tgggaggccg	aggcgggcag	atcacgaggt	caggagatcg	agaccatcct	15360
ggctaacatg	gtaaaacccc	atctctacta	aaaatacaaa	aaattagccg	ggcctggtgg	15420
tgtgcacctg	tacctgtagt	cccagctact	cgggatgctg	aggcagaaga	atgcctgaa	15480
cccaggaggt	ggaagcttga	gtgagccgag	atgcaccac	tgcactccag	cctgggtgac	15540
agagagagac	tccatctcaa	aaagaaaaaa	aagattggga	taaaaacagt	atgttttcat	15600
tcaaagaaaa	tttctctttg	agacagggtc	ttgctttgtc	acccagtgca	gtggcatgat	15660
catagctcac	tgcacccctg	acttccctgg	ctcaagccat	cctccccact	caacctctca	15720
ggtagctgag	actgtagggt	tgcaccacca	cactgcgcta	ttttttcttt	tttttttttt	15780
ttaatttttg	taggcagggt	gcagtgccgt	atacctgtaa	tcctagcatt	ttgggagcc	15840
aagggtgagca	gattgcctga	gttcaggagt	ttgatgtggt	aaaaccctat	ctctacaaaa	15900

attagctagg	tgtggtggcg	tgtgcctgta	gttcagcta	ctcaggaaac	tgaggcagaa	15960
ggatcacttg	agcccagggtg	gtcaaggcctt	cagtgaagcca	tgactataacc	acaccaacct	16020
gggcaacaaa	gcaagaccct	gtctcaaaaa	taaataaata	aataaataaa	gccaggcggtg	16080
gtggctcaca	cctataatcc	tagaactttg	ggaggccggg	gcgggcagat	cacgatgtca	16140
agagatcaag	accatcctgg	caaacatggt	gaaaccccg	ctttactaaa	aatacagccg	16200
ggcacggtgg	cttaacgcct	gtaatcccag	cactttggga	ggctgaggag	ggtggatcac	16260
aaggctcaaga	gttcaagacc	agcttggcca	agatggtgaa	atcccgctc	tactaaaaat	16320
ataaaaaatta	gccaggcggtg	gcggcaagca	cctgtaatcc	cagctactca	ggaggctgag	16380
gcaggagaat	cacttgacct	gggaggggga	ggtagcagtg	agcagagatc	acgccactgc	16440
attttagcct	gggagacaga	gcaagactct	gtctcaaaaa	acaaaaaat	tacaaaaat	16500
agctgggcgt	gatggcgtgt	gcctgtagtc	ccagctactc	aggatgctga	ggcaggagaa	16560
tagcttgaac	ccaggaggcg	gagggttgcg	tgagccgaga	tcacgtcatt	gcactccaac	16620
ctggtgacag	agcaagactc	agtctcaaaa	aaaataatta	attaatgttt	tatagagagg	16680
aggctcttcac	aggttgccta	ggctgggtctt	gaactcctgg	gctcaggcag	tcctcccacc	16740
ctggcctccc	aaagtgtctg	gattattgat	atgagcctct	gtgcttgacc	caaaacatat	16800
ttattgagcc	ccatcctgtg	cctgtcatgg	ttctatgcac	tgggtgtgca	gtggcgaa	16860
agccagacac	agtctctgct	ctaaccgtac	ttgtattctg	atgaaggag	gcagaaagca	16920
acaggaaagc	atatcagaca	gtggtatgca	gagagtgatg	gaggctactc	tagactggaa	16980
cacggaggaa	ggcctctttg	aggaaatgat	ttcttggtgt	tttttgtttt	ggtttggttt	17040
ggtttgagac	agggtctagc	tctgtcaccc	aggctggagt	gcagtagtgc	aatctcagct	17100
cactgcacca	tctgcctgct	gggctcaagc	gatecctcca	cctcagcctt	ccaagtagct	17160
gggaccacag	gcgtactcca	ccatgcctgg	tgaattttta	tatttttggg	aaagacaggg	17220
tttcaccatg	ttgccaggc	tggctctaaa	ctcctgagct	caagcagtc	tcctacctca	17280
gcctcccaga	gtgctgggat	tataggtgta	agccactaca	cccgaccctt	cttcccaatt	17340
ttaacactaa	aagaaaatta	gaaaaattgg	ccgggcacgg	tggctcacac	ctgtaatccc	17400
agcacttttg	gaggccgagg	cgggtggatc	acaagatcag	gagatcgaga	ccatcctggc	17460
taacacggtg	aaaccccgct	tctactaaaa	atacaaaaaa	ttagccaagc	gtggtggcag	17520
gcacctgtag	taccagctgc	tcaggaggct	gaggcaggag	aatggcggtga	accaggagg	17580
cggagcttgc	agtgagccga	gatcgtgcc	ctgcactcca	gcctgggtga	cagagcgaga	17640
ctctgtctca	aaaaaaaaaa	aaattagaaa	aattacatgc	ttttctcttg	actgtctgcc	17700
aactatcata	gtaggttaact	ttgggaaatg	gatgcattga	gttctgaaat	ggatgtat	17760
gagaggtaga	acaccgtgtt	tagaaagtcc	ttgtaggccg	ggcgagtag	ctcacacctg	17820
taatcccagc	actttgggag	gccaaggcgg	gtggatcacc	tgaggtcagg	agttcaagac	17880
cagcctggcc	aacatgacaa	aaccccgctc	tacaaaaaat	agctggcgct	17940	
ggtagcacat	gcctgtaatc	ccagctacta	gggaggctga	ggcaggaaaa	ttgcttgaac	18000
ccaggaggcg	gaggttgacg	tgagccgaga	tcacaccatc	gcactccagc	ctgggcaaca	18060
gagcagactc	cgtctcaaaa	aaaaaaaaaga	aagtcagaaa	gtccctgtag	atttctaagc	18120
gtctgtgttt	gtttgttaga	tgcttgttga	cgctcctgct	cagacctggc	tcaggaaacta	18180
cgctcagagt	gtgccaccgt	ccagcggctg	cagcacacac	tccaacaggt	gcttgacca	18240
agagaggaa	gtgctcagtc	caagcagctc	ctgcagctgt	acctccaggc	tttgagaaa	18300
gagggcagcc	tcttgtcaaa	gcagggaagg	aggactctct	gcaggcagag	tcactctgag	18360
aattcagggc	tgatggaggc	gtcccttggg	aggacactat	ttgtgatgta	gccagggcc	18420
ctgaagccgc	ggctgctggg	atgcgggacg	ggcaggtttc	tctcttgccc	ggccagttat	18480
tctggcgagt	tgttcatgtg	gctgtgtggt	cacaccacgt	ctgatctctg	tctcgtgtct	18540
cctttgcaga	gtccaaagct	gcctttgggtg	aggagggtga	tgagtagac	acgggtatca	18600
gcagagagac	ctcctcggac	gttgcgctgg	cgagccacat	ccttactgca	ctgagggaga	18660
agcaggctcc	agagctgagc	ttatctagtc	aggatttggg	ggtgggcgga	aaccagggtc	18720
actgagctac	agaggaggac	atgccttggg	atgtagtagt	atcatgcaga	ggtgtgtggg	18780
cccttttgtt	cacctctgca	gactgtgaat	cctagctgcc	agtttgccca	ttatatgcca	18840
aggcatttgc	aaaaatctca	ttaatctaaa	tcaaaatagc	tttaaagaaa	aatgcataca	18900
cttcctcaga	ctatcaaa	gactctggtc	caagggtggg	aatgaaatga	ctgttctgta	18960
caggaggaa	tagcagggcc	caatcttctg	agatggcttc	tgggtctttc	catgggcaga	19020
gaagatctat	agtccgtcct	gaggtctgtc	aatgtcacag	gaaaaggcaa	acttgagggg	19080
atcgctgcct	gctggctaag	accaggggagc	taaaaacttg	agggaaggga	cctgcctggg	19140
tgggtgctac	ttctgattca	ttgtccttgt	ccctgtcata	agtacctccc	tattgtagat	19200
agaagggaag	gaaactgttg	acttgagctt	ggctaaattt	cctgaagggtg	gaggacctta	19260
gagttgctcc	aagtaaactt	tccaaggact	tcttccctgtt	ggtgttgtaa	gaaaaggccc	19320
atgcttgtcc	gggcacagtg	gcttacgcct	gttaatgcca	gtactttggg	aggccgaggc	19380

agggtggatca	cctgaggtca	ggagttcgag	accagcctga	ccaacatggc	gaaaccccat	19440
ctctactaaa	aatacaaaaa	ttagcctggc	atggtgggtg	gaggctgaag	caagagaatc	19500
acttgaaccc	aggaggtgga	ggttgctgta	gctaagatcg	cgccactgca	ctccagcctg	19560
ggcgacaaga	gtgaaactcc	gtcttaaaaa	agcccatggc	aggctgggcg	cggtggctca	19620
cgctgtaat	cccagcactt	tgggaggcca	agggtggcg	atcacaagg	caggagatcg	19680
agaccatcct	ggcgaacacg	gtgaaacccc	gtctctacta	aaaaaaatac	aaaaaaatta	19740
gccaggcgtg	gtcgtgggca	cctgtagtcc	cagctactca	gggggctgag	gcaggagaat	19800
ggcgtgaatc	cgggaggcgg	agcttgacgg	gagccgagat	agtgtcactg	cactccagcc	19860
tgggtgacag	agcgagactc	cgtctcaaaa	aacaaaaagc	ccgtggcaat	taatggtaaa	19920
ggaaaccccg	catttcagtg	ttaaagaggt	acataaacgg	atactgcctc	attgcactcc	19980
ccaaaagaga	gtcaggagag	cagcgacaga	ggcgacacaga	aggcccagtt	ctcagggttt	20040
tttattcttg	ctgcagttgg	ttaccaagga	agaccccaaa	gcactggctg	ttgccttgaa	20100
ctgggacata	aagaagacgg	agactgttca	ggaggcctgt	gagcgggagc	tcgcccctgcg	20160
cctgcagcag	acgcagagct	tgcattctct	ccggagcatc	tcagcaagca	aggcctcacc	20220
acctggtgac	ctgcagaatc	ctaagcgagc	cagacaggat	cccacatagc	agcagcggga	20280
agtgtgccaa	ggaagctctg	tggcgttgtg	ttatttggtg	acaccctcag	cctcatcatt	20340
tgactaccta	tgtactactc	taccccctgc	cttagagcac	cttccagaga	agctattcca	20400
ggtctcaaca	tacgcggttc	caccaatttt	tttttttagcc	ccaccagctt	caggacttct	20460
gccaattttg	aatgatatag	ctgcaccaac	aatatcccgc	ctcctctaata	tacatatgat	20520
gttctctggt	caaaagtaat	tggcagtgat	tggccaggcg	cagtggctca	cgccctgtaat	20580
cccagcactg	ggaggccgag	ggggggcgat	cgtgaagtca	ggagatcgag	accatcctgg	20640
ctaacatggt	gaaaccctgt	ctctactaaa	aatacaaaaa	aaattagcca	gccatggtgg	20700
cgggcgcctg	taatcccagc	tacttgggag	gctgaggcag	gagaatggca	tgaacctggg	20760
aggcagagct	tgacgtgagc	tgagattgctg	ccactgcact	ccagcctggg	caacagagcg	20820
agactccgtc	tcaaaaaaaa	aaaaaaaaaa	agtaattggc	agtgactatg	ggcgactgc	20880
ctaacattta	gccttgcccc	atatggaaca	tgttaaaaaa	aaaaaaagcc	aggccgagcg	20940
tgttggtcga	cgcttgtaat	cccagcactt	tgggaggccg	aggcgggtgg	atcacgaggt	21000
caggagatcg	agaccatcct	ggctaacaca	gtgaaacgtg	tttttactaa	aagtacaaaa	21060
aactagctgg	gcgtgggtgg	aggagcctgt	agtcacagct	actcgggagg	ctgaggcagg	21120
agaattgctt	gaaccgggga	ggcagaagtt	gcagtgagcc	gagattatgc	cactgtactc	21180
cagcctgggt	gacagagtga	cactctgtct	caaaaaaaaa	aaaaaaagg	ataggcacga	21240
cagtggctca	cacttttgat	cccagcactt	tggaggccga	tgcaggcgga	tcacatgagg	21300
tcaggagttc	aagaccaacc	tggccaatat	ggtgaaaccc	cgtctctact	aaaaatacaa	21360
aaattagctt	ggcatgatgg	cgggtgcttg	tactcccagc	tactcggtag	gcagaggttg	21420
cagtgcctg	agagcgcacc	actgcactcc	agcctgggtg	acagagctag	actccgtatc	21480
tcaagaaaaa	aaaaaagttt	tgttttggtt	ttttgagaca	gagtctcact	ctgtcaccta	21540
gtctggagtg	cagtggcaca	ttctcggctc	actgcaaccc	ccacctccca	ggttcaagcg	21600
attctcctgt	ttcagcctcc	tgagcagctg	ggattacagg	cacgtgccac	catgcccgcc	21660
taatttttgt	attttttagta	gagacaggtg	tttgtcacat	tggccaggct	ggtctcaaac	21720
tactgacctc	aggtgatoca	cccacctcag	cctcccaaa	tgctgggatt	acagggtgta	21780
gccaccaccc	ctggccagaa	aaaaaagctt	ttaaataaag	taattgtcag	cttaggcaac	21840
atagcaagac	cctgtctcta	caaaaaaaaa	atttaagtta	gccaggcatg	gtggcactga	21900
cctataatcc	tagctactct	ggaggctaag	gcgagagtat	cacttgagcc	caggagctca	21960
aggctgatca	tgccaccata	ctccagcctg	gatgatagag	taagacccta	cttttttttt	22020
ttttttttta	aaaaggtaac	catcaagggc	aatgaaaaga	aatggtcgtg	tttccaattc	22080
attatcctta	ttctgaagat	agtacggcag	aatttttaagc	agagatagtg	gtgaagatgg	22140
tgacattata	gagtgttgac	tatggccaca	atcttgtttc	tccagttaat	gaattttttt	22200
atgtgtttgt	ttaaagatac	atattaagct	tgtagaccat	agggacatac	ggagagtcca	22260
ttgctaatat	ctcactcagt	attgtgaaat	tctatctcac	caccgtgaaa	ctcttcagtt	22320
ttctaatgtc	tttatcagca	gggggtataa	aaggctcatga	aagcaatttc	catatgctgt	22380
ggctccaggt	ctctgggtgt	gaagcagagc	aagcctgggt	tgtcctcctc	ctgtctccac	22440
acagacgggt	tctgcagggt	tggtaatcta	cagtcacactc	cttgcaggga	aaaggtgatg	22500
agtcacatg	gacttatgtg	accacttttt	atgcattgctt	agaggaaaac	agaatactgt	22560
taagagattc	atctgctagt	tattaagtaa	agaaatatca	caataggccg	ggcgagtggt	22620
ctcacacctg	taatcccagc	attttggtgag	gccaagggtg	gcggatcacc	tgaggtcagg	22680
agttcgagac	cagcctagcc	aacatggtga	aaccccgctc	ctactgaaat	tataaaaaat	22740
tagccgggtg	tagtggtaca	cgcctgtagt	ccagttact	tgggaggctg	aggcatgaga	22800
attgcttgaa	cccaggaagt	ggagggtgag	gtgagccgaa	attgtgccac	tgtactccag	22860

cctgcaacag	agtgagacac	tgtcacacaa	aaaagaaaga	aatatcacia	tatgtcacia	22920
taggccgggc	gcagtggctc	acacctgcag	tcccagcact	ttgggaggcc	aaggcagatg	22980
gatcacctga	ggtcaggagt	ttgagaccag	cctggccaac	gtgacaaaac	ccagtctact	23040
aaaaatacaa	aaattagcca	ggcgtgatgg	tgggcacctg	taatcccagc	tactcaggag	23100
gctgagacat	gagaatcgct	tgaaccagg	aggtggagat	tgcactgagc	tgagatcctg	23160
ccactgggct	ccagcctggg	tgacagaatg	agactctgtc	tttaaaaaaa	aaaaaaaaag	23220
aaaatcacia	taagtcctag	g				23241

<210> 86

<211> 12312

<212> DNA

<213> Homo sapiens

<400> 86

cctaggagtt	cgagaccaac	ctggccaaca	tggcaaaacc	ccgtctttgc	taaaaaatata	60
aaaattagct	ggccgtgggtg	gtgcacgcct	atagtcaccag	atactcagga	gactaaggca	120
agagagtcac	ttgaacccgg	gagacagagg	ttgcagttag	cggagattgc	accactgcac	180
tccagcctgg	gtgacacagc	gagacaccgc	ttcaaaaaaa	gaaatgtttt	ggtgggaaaa	240
aaaatgagaa	ccacttatcc	acagtgaacc	tgccgacaag	tacaccaaaag	tattctaac	300
acaaaagtca	cagaagacac	aaatgctgag	gagactgtgc	caggaatata	tgtagaggt	360
ctttggcaga	caggcaaccg	gctgtagcta	ttcttttctt	ttcttttttt	tttttttttt	420
tttttttttg	agacagaatc	tggctctgtc	gcccaggctg	cagggcaata	gcgcgatctc	480
ggttcactgc	aacctctgcc	acctgagtag	ccaggattat	aggtacctgc	cactacaccc	540
agctaatttt	tttttttttt	taagtagaga	cgggggtttt	ccatgttagc	caggctagtc	600
tcgaactcct	gacctcagg	gatccaccgc	cctcggcctc	ccacagtgtc	gggattacag	660
gcgtgagcac	cgtgccttgc	ctattcttac	agagatcaca	gtactggctc	cctgaatcca	720
tcaaatccag	cctcttgatt	accagcctct	ggtttaattg	cttgtaaacc	aaagagaaaa	780
tcctgggtgt	cccaggggta	agatggatga	gcttccccag	gactgagatc	aaatacatga	840
tgtagaacc	cctggacaag	gttccatctg	agcctcagga	agaaacctga	gggcactttg	900
gcacttgag	agcaaaacta	ctgagacgca	acctagatct	gcaactgcag	agcatcttta	960
ttttgaagaa	ttcagcatac	taaaaaatag	taatcccaga	aaaagggtgat	aaagtagaaa	1020
ttgctgtcat	cagttacaga	aaaaattgta	gtttggggcc	aggcacgttg	gctcacacct	1080
gtaatcccag	cactttggga	ggccaagggtg	ggcagatcac	aaggtcagga	gatccagacc	1140
atcctggcca	acatgggtga	accctgtctc	cactaaaaat	acaaaaatta	gctgggcatg	1200
gcggcgcgta	cctgtaatcc	cagctactct	ggaggctgag	gcaggagaat	cgcttgaacc	1260
cgggagggtg	aggatgcagt	gagccgagat	cacaccactg	cactccagcc	tgggtgacag	1320
agcaagactc	catctcaaaa	aaaaaaaaaa	aaaaaattgt	tctttgggat	tattttggtg	1380
gagagatgca	ggaaagagga	cagaaagaaa	aaacaaaaag	aacctacacc	taaaagttaa	1440
aggaagagag	gatggccaag	gactcatcca	ttagagagaa	cttgggtgtca	aagagcaaaa	1500
agctaaaatt	ctagtttagc	caaaatccat	aagcactgtt	taaagtagat	gagctatagt	1560
attgctgaac	attgagaaac	tgaattgaaa	caagttagca	gatgtgtaaa	tcaaacctta	1620
tttactgctt	acttcaaata	acaaaaatc	atatgactaa	atggaaagct	caaaagttta	1680
tttaacccaa	gtttcagtat	ccaaacaaga	tgggaactga	aattacccca	tgcatatgtg	1740
gacaattgtc	cgccattctc	aaaatactta	tagaccaggc	agggacttgg	tcctactagg	1800
acagcacaag	aagctggatc	cagagactgt	gtgggcctaa	ggacaggcac	acaactgtgg	1860
ctagaaaacc	agagtctgtg	ggaaattcac	aggttttcac	agatctggga	gaagctggag	1920
gtctgtactc	tggaggcctg	tccgaactcc	ttgcctcagc	aggcaaagct	cagtgaagag	1980
agtataaaga	gaaaaaagta	accagccatt	ttaactttgg	cggagttttg	tcaacaacag	2040
agaatttcaa	cttggagttt	gcagaatttc	tcaagactgg	tctgttcacc	aatctctagc	2100
cctaattgaca	tgatattaga	gagcaatact	cctctgagac	ggtcaatgtt	gctgggttgg	2160
tttgatttgg	aggccaggat	cgaggcagga	ttgaacgggc	aagaaaagga	aacacgcagc	2220
ctcactactt	tgctagaatc	aaggccagga	tttggttaca	aacacgaatg	tgctcgtttg	2280
agactacaag	attacacttc	tcaccacaaa	atctcgagac	agtttttatg	attcagagag	2340
gacagaactg	aaaatcaagt	cttctttgcc	tagcaaatat	aacaaaacaa	tcatgcacat	2400
attgactaca	tcacaatgtc	acctgcaccg	cactgactac	taaatagaac	ttcttctgtc	2460
gtaatttact	tttatttcoa	ttcttttgtt	ttgttttgtt	ttgttttgtt	ttgttttgtt	2520
ttagagacag	ggccttgctc	tggtgtctag	gctggaggtg	agtggcctga	tcatagctca	2580

ctgcagcctc	aaactcctga	gctcaagcaa	tctctctggct	tctgcctcct	gagcagctga	2640
gagtataggt	atgaggcacc	aagccccggt	aatgttaaaa	tttataatag	agatgggggc	2700
tctctatctt	gtgcaggctg	gtctcaaaact	cctggcctca	agtgatcccc	cgaccttggc	2760
ctcccaaagt	gctgggatga	taggcatgag	ccactgcacc	tggccagtaa	cttacttttt	2820
taataagggg	aaaaattatt	tcaaagtgat	catctagtct	gggacaaaga	ataagattat	2880
ttgccttttag	tgtagagacc	aggcaacttc	cattaaggaa	ttgtatgaaa	aatatgcatt	2940
cagttaaaaa	caaaaagaat	atgtattttcc	cgaagcttaa	atgaaaaaat	taacaataat	3000
aaacacaaaa	acaaaacaac	ttagcagtg	gttcccccaa	cactgaaata	tcccattcct	3060
caaggcctgg	cttcaagttt	cccaaaagcc	atccctaagt	ggccctcgcc	ctccgcagag	3120
ctcttctctg	tctgaataac	ttggggctct	cttctacgcc	caaccaggca	gctctgcacc	3180
aaatgataca	caatgttg	ctatttgcta	aaattacata	cagtcgtgtg	cagtttgctc	3240
ttatttcata	tgtataaatg	ccttttcttc	ccaaagtaaa	acacgtgaat	tactcaagaa	3300
caagggttag	ttttattcct	caattgtctg	ttccccatcc	tcaggcctga	gctgagctaa	3360
gctgagcatg	caggagacag	caaatacaca	tggcctgaga	aagctccctc	cctgtggaag	3420
ggctgactgc	tgtgtgtttt	cacaaaccgc	aacaccacca	cactgagctg	tggggctttc	3480
tgtgcaaggg	ggctgcccc	cttgtgcccc	cgccctgcca	cacgagtcct	cagcgggctc	3540
ctctgcctga	cacctctcca	acaccactcc	caggaggaag	aagcagttca	cacaagacca	3600
cgcgactcag	ctgggtcccc	cgtttaatca	ggctgctgca	aatgcttggc	caaaagcaat	3660
aagggcatga	ctgagagact	gtgggagttt	aatataaaaa	atttaataaa	caaaaaagtg	3720
ggggaaggag	aaagggtcta	ccttttaata	gggccctaata	tacccaactc	ataggatcag	3780
cccaaattgag	atgggagttt	atttcggggg	tttttttaata	tattatttta	tatatatata	3840
taaatgtccg	ctatgtgttt	tctttctctt	gagcaattat	gcagcaagta	cgtaaagagg	3900
agaaaaataa	tttaattaaat	ataaggtaat	tgtggagttg	gcctggagag	aatgagctcg	3960
aactctggac	gatcacaggc	tactagggtt	tgaagactgc	tcagggcctc	ccagaaaaga	4020
aagaaataaa	aatacaacca	accaacaagc	agatgcacag	tacagcagga	agagcagggc	4080
acagaaacac	tagcagagca	aggggtctgc	aggggtccaa	ataccagaaa	tcagtgaagt	4140
ggccaactgc	tcagggtccc	caaagagctt	gtcgaatcaa	gccccaaaag	atggactggc	4200
cactcctccg	atgaccagtt	aaatgggtac	atcaaaattt	gaaaagagag	aggaaggaaa	4260
ggactgcagc	ggcctatggg	gttcaatctg	cacttcagtc	taaaaacaacc	acaacttcgg	4320
cctgaggggg	actgaggcag	gccccaggga	agcaggcaga	cgccgggaga	gactagcaag	4380
gtggggcctc	ctgggctttc	ccaccaccat	gacctcaagg	aaggaaactgg	gcaataccaa	4440
aagagtgaag	cgaggccacc	gtgggagttc	tgggatataa	gcccgttaact	ggtgacgtaa	4500
cagcaggtga	catgaatgac	aacactgtct	ccctgaaaca	gtcccagcag	tgcttgtatc	4560
acctcggcct	ttctacagac	agctcaactg	taccgaactc	gcctcagcc	tgggaaagcc	4620
ttcgtacaca	ctggaattca	gacgtgttca	taccgctaa	gtccctcagc	tcactctctc	4680
ccgcgactgc	cagaagggga	gtgaagcaga	acagggtgaa	ccacaggccc	tgctgaaaca	4740
aagccttggc	agtacagccc	tacgcctgct	atcgctacgc	aggaagaaaa	agctctgaaa	4800
agttaaacct	agagctgggt	ctcccatcaa	acttatctgg	tttatacaga	gccagtctta	4860
ctaccagccc	aagaggactt	acagcaggcc	ctgaaaagca	aaaaagaatg	aaaatggggg	4920
gggcagcctg	ggactctggc	caccaaatag	aaagcacttg	ggagagaaaa	ttacctgcag	4980
tgtctaatag	ggcctctccc	tatccatagt	ctaagaagac	agcgttggga	atgacaatca	5040
cacaattact	gaccaggcaa	aaccagaatt	ccatcgctta	cctgttcttt	aaagaccact	5100
gaggcgctcg	cacctgagg	ggcagagcag	agggcggtta	cttcaaacaa	tctagaagcc	5160
cagccacctc	actccacctc	agcctcccac	gggcgcagga	atctcactaa	ttactattga	5220
tcagccacaa	acaaagtggg	gcaggaccat	ctgggggtga	tgcttttagt	cctagaaaag	5280
accagccttt	actaaggaga	gatctcactc	gtccccacac	gcgagaagag	aagtcagagg	5340
tactgacag	aggcagttct	taggtaacag	ctacttttaa	agggacacta	ctgacgcaga	5400
accataggaa	cagaagggtt	cttttctact	gcgtggcatt	tttaattacta	gaaagtgata	5460
ccacatatct	tgggtactta	ccagcggctc	tgcaggcagc	acattttcac	ttcctggagt	5520
agagcttggc	tgcaagagaa	aatggaaaca	aaaataagat	cacagtgcca	cccaatggac	5580
atcaaaaaac	caaagatgtt	ccgttctcaa	acgatgcacg	ctggcacctc	tttctcacat	5640
ctctcaactg	tttttcacga	cacaagagta	ttttgcagtg	gactacctgt	aaaaagttagc	5700
ccaaagagtc	tgaattcacc	agggaagatg	aagactgttt	ctgggttcac	ttgtcacacc	5760
actccaagaa	caaggcttgg	ttctgctcag	gaaggcccac	gatcacctac	tgagcagcaa	5820
gggctgggga	ccatcccaaa	atccacggga	agagtagagt	ccagagaaaa	ggcctgaaga	5880
gagagcacia	cacctcctct	ttctgccacc	tccccaacgt	caggggactg	ggaagaaaaag	5940
tgcgcagca	gtggagaacc	agattccacc	accagggggc	cccagctgcc	cacgctcagg	6000
attttctctg	ggcatctagt	ttctggagcc	cagaagccag	taaactacac	aggttctctat	6060

tcacacactg	ccactaagga	caccacccca	caatagtaaa	gaaagcccca	ggcttaaatc	6120
cttcttggaa	ataagctagt	gacaggctgg	catataagca	gaccaacctc	caggcgagca	6180
ggcagcactg	tggccgaggc	cctggctcta	gcccgtttcc	tcttccttgg	ggccactacc	6240
tcaccctcac	aggcgcttc	gacccttgac	tgatctggcc	aaaatttaga	gaaagggaga	6300
ggcagaggta	gagacagatt	ctgaagaaat	ttacaaatct	ccaaaagaat	aaagtaagca	6360
gggtatgctg	taagttagct	atgattagtt	tactgtgact	gatggtcagg	ccaattgcc	6420
tctatctaca	gttaatatcc	agacaagtgc	agcaaaatct	gtgtgtccca	ggagacagcc	6480
tgcagcctcc	attctcccgg	ctattacaga	tcagatggaa	gtgccaggcc	gccttggaaa	6540
aggacagagg	cccgtctgc	agagggttcc	caaaaattcc	tcatgcccag	ctactaccac	6600
attagctggc	acacagcaca	gtggcaagca	ctctgtctgg	tgaaggcctc	tatccctcca	6660
tccgaagtcc	tgtcccaaga	gcctcaccac	cccaggacaa	gaggtcagcc	agcaggaaa	6720
gatctagaaa	gtgaggggtc	gtctcaggga	atgtgagcaa	gcttcccctg	cctccctgcc	6780
tctgtcctc	ccaaagctcc	aggcattggg	aacttcaaac	ctttagagct	ccagcccaca	6840
cccctctgag	atacacatcc	gactgccttc	ctgcctcttc	ttggagttaa	gctgccttgg	6900
agcagactca	cagtcccttc	tgacacatat	gtcttcttcc	agcattccct	cttggcatga	6960
atgggacaaa	ccttaccaaa	tgatgtaaac	tagaatccaa	aaggccatct	tgagacagct	7020
ctttctccct	cgtcccaga	gctaactcat	tacatcaagt	ctgccatact	ccttccctcaa	7080
tatccatgga	agagtgggtg	aaatgccagc	actttgggag	gcccaggagg	atggattgct	7140
tgagcccagg	agtttgaac	cagcctgggc	aacatggcaa	atcctcgtct	ctacaaaaaa	7200
tataaaaatg	ggcagggtgt	gggtgggtgtc	gcttgtagct	ccagctatct	gggaagctgg	7260
ggcagaagga	tcccttgagc	ctgtaaattc	aaggctgcag	tacaccatga	tcacaccact	7320
gcactccagg	ccaggtgaca	gagccagacc	ctgtctcaaa	aaaaattaaa	aagtcctatg	7380
aaacaatcca	tccgtttttc	tccatctcta	ctgccatcac	ttcagtcocaa	gctaccaaaa	7440
tccctgcct	ggaccactgc	gtcagctttc	tcacagtgct	tgccgctctt	ccaattcata	7500
ttctgggatg	caaacagact	atcatttcca	aaggagaatc	tgctcgtccc	atcccttgtc	7560
caccactca	cccagtaaaa	cacaacaaat	ttaagggtct	ctccttgctc	ttagaagaca	7620
gaaaaacctc	agcgtggcct	acaaggcctc	acgtctactc	tgactacacc	tcaggtctca	7680
agcggcagc	catgcccac	ttctgcccct	tgacagacgc	actggccttt	gctttctctg	7740
tcactgcgcc	tttgacatg	cccttccctc	cccttagttc	atccttcaga	tccagctaa	7800
acacttctc	agggaaagcat	tccttctctg	acatccatga	ctaggtcaga	tctccctgtg	7860
acacattcag	gtaacaccac	ctgcctctcc	ttcaaggacc	tgagcagatg	tgcaacttta	7920
catctgtgtg	actatcggac	tgatgcctgt	ctctctcacc	agattataaa	ctccacgtgt	7980
gcagaaactg	cctgtgtttg	cttatcactg	tatccctggg	ggctaggaca	gtgccaggca	8040
cagaggaggc	tttcaataga	aatttgctga	atgaatgaat	gggcaacaaa	aaaacagaa	8100
aatggcaaca	actcagctga	atggattatt	tagattcttc	cgttcattat	cttccctagg	8160
gtttcctcta	ctccatttgc	tagatactaa	gtgctaacat	tcacttagct	ctttcctcct	8220
ttaattctca	caataagtat	atcaaatcac	tgctgatgag	gaaactgagg	caaaagaggt	8280
taaataactt	gccatgatt	actcagatag	taactggtac	tacagggatt	tgaacccttc	8340
tacttaatca	aaataagcaa	gttttgttta	aaccacattt	tattaagcaa	caaccttaat	8400
gctaccccat	aaataataat	gtaggttatt	tgaccagaca	aaacacacaa	aagcaaacag	8460
cttttagtatt	taggaagccc	cattctgact	taaccacaaa	ctttcttctc	aaaataaaac	8520
taatcactat	gaattgtttc	caccaaggaa	ctgctcttaa	aattagttca	tcccttgaat	8580
agctagtatt	taccagaggg	aaaaacttca	aacagtacac	agtgccaaat	aagtctcttt	8640
catcataaac	ccttttagtac	cttttaaatt	ataagccatg	taaatgaatt	gttttagaaa	8700
attcaatatt	aaaagtaaaa	aagaaagctt	ccctctcatt	ccaaccctag	gggaccaca	8760
ctgacgctgg	ttccttatat	attctgcca	ggatattcaa	agcatataag	aagcatggcc	8820
ggccgggtgc	agtggctcat	gcctgtaatc	ccagcacttc	aggaggccaa	ggtgagcgaa	8880
tcacttgagg	ccgggagtta	gagatgagcc	tggccaacat	ggcgaaaccc	cgtctctaca	8940
aaaaaaatgc	aaaaataagc	tgggtgtggt	ggtgcatgcc	tgtagtccca	gctactcggt	9000
aggcagaggg	acaataatcg	cttgaacccg	ggaggcggag	gttacagtga	gctgagatca	9060
tgccactgca	ctccaactca	ggtgacagag	tgagactctg	tctccaaaaa	aaaaaaaaaa	9120
aaaaaaaagg	agcatggcca	agtggtggtt	acaccttaaa	cccagcacag	cactctggga	9180
gggtacaatg	ggaggatccc	ttaaggccag	gagtttgaga	ccagcctggg	caacacagcg	9240
agaccccatc	tctacaaaaa	atttaaaaaa	tagccgggtg	tgggtggtgca	tcctatagtc	9300
ccagctactc	aggaggctcg	cttgatccca	ggaggcagag	attgcagtga	gctatgatgg	9360
tgcatttgta	ttccagcttg	gtcaacagag	caagactctg	tctcaaaaag	aaaaaaagg	9420
tgcattgtga	tgcatttcc	taccatggaa	ttgaaacag	caactctcca	aattcctcaa	9480
gtcatggctt	cccagagcca	cagtcccagt	atgaagctgg	gaatacaaat	gtgagccacc	9540

acacctggcc	ttttttttat	ttttttaatc	atggcctacc	ctgtgaacat	ttttttaaaa	9600
tcttccacca	tgctagctgt	ttaaacaatc	gaagcaggcc	gggcacagta	gctcacgcct	9660
gtaatcccgag	cattttggga	ggtcgaggca	ggcagatcac	ctggtcagga	gttcaagacc	9720
agcctggcca	acatagcaaa	acctcatctc	caactgatcc	tggaaatctt	cacagagtag	9780
tccatgatta	aaaaaaaaaa	aaaaacaagg	ccgggcatgg	tggttcacac	cagcactttg	9840
ggaggccgat	gtgggaggat	cgcttggggc	caggagtctg	agaccagcct	gagcaacatg	9900
gtaaaacctt	gtctctacta	aaaaatacaa	aaatttgcca	cgcattggtg	cacatgcctg	9960
taagtcccaa	ctaccagga	ggttgaagt	ggaggatcaa	ctgagcccag	gaggttgagg	10020
ctgtggtgag	ctgtgatcac	atcactgcac	tccagcctgg	gtaacagagt	aagactgtct	10080
cagaaaaaaa	aaaaaaaaaa	aaggcttaga	aaccacccac	aggcatctat	tgtaacgatg	10140
taagaaaagg	acctaaggca	atccatgccc	aggatcccta	gaggcctgaa	tggggagagc	10200
aggaagagaa	gaaagcaaaa	gcagaaaact	gctttaaaaa	aacaagtcag	gcaaagacta	10260
cggcggcaga	gagagaaatg	cttttctttt	ggtagagaca	aaggtgctct	cactcctgct	10320
gccaaaggcg	tgaccttccc	caactggaag	gcgttcccag	atcctgacct	gctgtccaac	10380
aaagaacaac	ctcacaagca	gctcacagat	ttgagcaact	ggcgaaagct	ccaggctctag	10440
gagaacccat	cctgcatctg	cccagtaact	gcgacttcag	ataggagAAC	ccatccctga	10500
tctgcccggt	gactgtgact	ccagataggt	ctaagccag	tctgtgtagt	tctctgtggt	10560
gaagaataag	attcgatccc	accaatatcc	tttgagatgc	agtggcatga	cagaaagtac	10620
acaagctttg	gcattaagaa	ctcagtgatt	tgggggcacg	ctgctcaacc	tctctgagcc	10680
tcagtttctt	catctatggg	aataacggga	ataataccac	cacctcacat	ttgggattag	10740
aggagatgat	aagttatttc	atgtcactcc	tctgctcaaa	gtcaaccaat	gcacttccac	10800
tctgggtcat	gatggagtga	tagggaacag	atttgccttc	ccactgtaaa	caactagaaa	10860
actaagccaa	ataataaaaa	ccactgtgtg	tacacattgg	acagcaggca	gtgcaggact	10920
acgatccctg	aaagcagaga	aacaaattac	ttgggcccta	aaatcactct	ggcttctctg	10980
caggagacac	atttcaggcc	ctggagagag	acggggatcc	ccagcagagc	acgccacca	11040
cttaagttga	agagacagag	atcagagttc	agggaggcca	aggcagctga	aagctgcagg	11100
acagacttca	gaaagaaaga	gctatgcaga	aaaagtggtc	cagaaatctg	tctggagggt	11160
ccctcagggt	tctgctgaat	actaaaattt	gtgcatgcat	agggtgaaac	tccacagtga	11220
agaagaagct	aggagctgac	atttcttaga	actctcagg	gaatcatgag	tcccaagcag	11280
ccagactgga	gtgtcctcac	agggcattca	ggagagacca	gaggtcAAAT	gatecctaga	11340
ttaaagatta	tccagatcca	ctctaacaaa	gctaaaaaac	aggactcaaa	atgataacag	11400
taaaccataa	aaaactgcac	agaagaaaaa	agctttaaag	actctttaa	gaccacaaaa	11460
tccataacct	caacaatact	gaactcacaa	tatccagcat	ccaataaaaa	atttcaaac	11520
atggccagg	acggtagctc	acgcctgtaa	tcccagcact	ttgggaggct	gaggcgggcg	11580
gatcacctga	ggtcacgagt	tcgagactag	cctgaccaac	atggagaaac	ccggtctcta	11640
ctaagaatac	aaaaattagc	cgggtgtggt	gggtgcatgc	tgtaatocca	gctacttggg	11700
aggctgagg	aggagaatca	cttgaaccca	ggaggcgggg	gttgcgggtg	gccgagatcg	11760
cgccattgca	ctccagccta	ggcaacaaga	gcaaaactca	gtctcaaaaa	cataaaattt	11820
aattttaaaa	tttcaacata	tgtcaagaag	caggaaaatg	taaccaataa	caataagaaa	11880
aaccagacga	tataactagt	agacaagaac	agtaagacag	gtgttacaac	tatactcaag	11940
tattttaaag	aaaacatgtc	acagtaagaa	gagaaatgta	aggtataaaa	agaaaataga	12000
ggccgagcac	agtggctcac	gcctgtaatc	ccagcacttt	gggaggccga	ggcggatgga	12060
tcacgagggt	aggagatcga	gaccatcctg	gctaacacgg	tgaaaccctt	tctctactaa	12120
aaatacaaaa	aaaaaattag	ccaggcatgg	tggcgggcac	ctgtagtccc	agctactcag	12180
gaggctgagg	caggagaatg	gggtgaaccc	aggaggcaga	gcttgacgtg	aaccgaggtc	12240
acgccactgc	actccagcca	gggcgacaga	gtgacattcc	gtctcaaaaa	aaaagaaaat	12300
agaatttcta	ga					12312

<210> 87

<211> 12730

<212> DNA

<213> Homo sapiens

<400> 87

tctagagagc	gcagtccaga	ctgcagtggg	agggcgggca	gagggtccca	gaaatggcac	60
caagaaaaca	gtaagtgtcc	tgatgtcttt	gatggtgccg	aggggaattt	tacagcttga	120
gctgagttag	gattaatcag	tgataagtac	acagctaagc	aatctgcccc	atccccaaat	180

agagtccatt	aactctatga	aaaaaaaaatt	ttacaaaaga	gaaagcacia	ctatcacata	240
cttcatggct	cacttgtaaa	aaatagttac	atacttttca	cattttattat	aattagtatt	300
catgatttta	ctaaagcatg	aatattgctt	tagtactata	atgcttagaa	tttgatattt	360
ataatattag	cactgtttat	atttaatgca	tccaatacta	ctaaaataaa	ctagatctcc	420
atcaatctct	acttcaaagc	caggcacagt	ggctcatgcc	tgtaaatccc	agcactttgg	480
gaggccaagg	tgggcagatc	acttgaggtc	aggagttcga	gaccagcctg	gccaatgtgg	540
tgaaccccca	tctctacaaa	aaatacaaaa	attagcaagg	tgtggtgacg	tgcatctgta	600
atcccagcta	cttgggaggc	tgagggtatga	gaatcacttg	aacccaggag	gcagaggttg	660
cagtgcagccg	agatcacgcc	actgcactcc	agccaggggca	acagagttag	actctgtctc	720
aaaaacaaaa	caaaaacaaa	caaaaaacac	tctaccttaa	tttttccaaa	tatcctcaaa	780
ttcatgatgt	ctgaggcat	gaacacaaaag	gcatagaaca	attcatcatc	tctgagggtc	840
tgaacacata	cttacggcta	ttctgctaac	tgtctggataa	aataatggca	caaagaatct	900
agcacattta	aaaaatacta	cactacaact	ggctggaatt	catattaata	atataataat	960
gattcactgt	tatctattaa	tatactttat	catattagat	caaaagacaa	taattatatg	1020
attattttctg	taagtataaa	aggacattag	atataattcg	atatccattc	ttagtaaaaa	1080
ctctaataac	ataagaatac	aagaatactt	ctggaatatg	attatctgtt	agtgggagtg	1140
ggggggggga	aagagtatat	acttgtgtat	atgtgtgtca	ttctccaaag	ctgacatcat	1200
cttttattaa	aaagatataa	aagcatatta	tttaaaatca	gaaacacatc	atacgttcac	1260
aatcatcagt	tttattttat	actgtttctg	aggtattttgc	tgatgcaact	ggacaagaaa	1320
agtagtaata	gatataagca	acggaaaaga	agaggggaga	gtgttattta	catatagcac	1380
ctggaaaaaac	tgacatgaat	taacgtacca	taacaatat	aagtatctag	ctaggtgtca	1440
acattcaaaa	tcagtatgta	aaaactgcct	gcaaatataa	gaactggctg	aaagacataa	1500
tgaaagaata	catcccattc	aaagtagtaa	cgaaaaagat	acatggctgg	gtgcagtggc	1560
tcattgctgt	aatcccatac	ttcgtgatgc	tgaggcagga	ggatcacttg	agcccaggag	1620
tttgcgacca	gcctgggcaa	catagtgaag	ccccgtctct	acaaaaataa	agaaaattag	1680
gccagggtaca	gtggctcaca	cctgtaattg	cagcactttg	agaggatgag	gcaggcggat	1740
cacttgaggt	caggagtcca	agaccagcct	ggcacaacat	gcgaaacccc	gtctctacta	1800
aaaatacaaaa	aattagcccc	gcgtgggtgt	gcattgcgtg	aatcccagcc	acttgggagg	1860
cagaggcagg	agaaccactt	cagttctcct	aggtggaggg	tgcatgagc	caagatcatg	1920
ccactgcctt	ccaatctggg	tgacacagca	agactgtcta	aaaaaaaatc	tttatttttc	1980
attttttact	gggcaagcta	attttgaaaa	ttatatagaa	ataagaatag	ccaagaaaat	2040
tccaaataat	tgaaaaaatg	ctgaggcaaa	attaatttta	acagataata	aaacatgtaa	2100
gatagtgtga	cattggacac	aaagaaacat	ttcaagtga	cagagtacgt	ccagatatat	2160
acagggaagt	aacataggat	aaagcttcat	tgcaaatcaa	tggagaaaaa	ctgcagagat	2220
gggaaactac	agccagggag	acaaatttag	ccattgtctt	atttttggat	ggcctgcaag	2280
ctaagaatgg	tttttacatt	tttttaaagt	taggaggcaa	aaaaagaatt	taatgataca	2340
tgaaaattag	atgaaattca	aatttcagtg	tccataaata	aagttttatt	tctcattagt	2400
ttatacactg	tcaacggctg	cttttgtgct	accacagtgg	cgatgagtag	tgttcagaga	2460
ccatacaaat	tgcaaaacct	taaagtattt	actatctggc	tctttacaga	aaaagtgtgt	2520
caacctttgc	aataatggat	gctggattat	tttattagct	ggaaaaaact	gaacttgaat	2580
ccttatactc	tatacactga	aataaattgc	tgattactta	aaaaaaaaca	acttgaggtt	2640
taaaaaataa	tactggtggc	caggagcggg	ggctcacgtc	tgtaatccca	gcactttggg	2700
aggccgaggc	gggcggatca	cctgaggtcg	ggagtttgag	atcagcctga	ccaacatgaa	2760
gaaaccccg	ctctactaaa	aaacaaaaca	aaacaaaaca	aacaaacaaa	caaaaaaatt	2820
agccaggcat	gatggcacat	gcctgtaatc	ctagctactc	gggaggctga	ggtaggagaa	2880
tcccttgaac	tcaggaggcg	gaggttcag	agagtcacga	tcattgccatt	gcactccaac	2940
ctgggcaaca	agagtgaat	tccacgtcaa	aaaaaaaag	gaagtcataa	aagaaatgat	3000
agataaataa	aaaaattctg	cctggacaaa	agcatcataa	acaaagtcaa	gacaaatttc	3060
aaactaatag	catatatttg	taacacaaat	cccagacatg	gggctatttt	ccttagtata	3120
taaaattata	aatcaatttt	aaaacattaa	tctcctaate	ccaagaaagg	gtaaaaatcc	3180
tgaatagtca	attttagat	acggaaataa	aaatggctct	taagttcaaa	agagaaattc	3240
aaatcaaaac	agcactgaga	ggctttctgc	atctaaccac	gatgaaatag	cttgtaaaag	3300
ttcaacaata	ctgctgagaa	caactgaaaa	acaaactgat	tgaaagtact	ggggagctgc	3360
caaggcaacc	aagacttgag	agtccaagat	ctcagtgaga	agggaaactgc	agaaaggtga	3420
gcaaatatcc	tataagatgc	tgaggcagag	cttttgtcca	tcttcagatg	gactagagag	3480
atgtaagtaa	atagacagac	atgtaataaa	ataaacaaat	ggagtccaca	aagcagaact	3540
cctgggctta	agagatcttc	ccacctcagc	ctcccaagta	gctgggacta	caggcatgtg	3600
ctaccacacc	catctaattt	ttgtgttttt	ttgtagcaat	gaggtcgccc	aggctggtct	3660

caaaactccta	gcctcaagca	atcctcctgc	ctcagcctcc	caagtagctg	ggattacagg	3720
ctcaagccat	tgcactcagt	tacaattttt	aaattgagta	aggctagagc	ttaagatcca	3780
aagttgagaa	tataaaatta	taaatccatt	ttaaaacatt	aatctcctaa	tcctaagaaa	3840
gggtaaaata	catgaatagt	caatttgtag	atatggaaat	aaaaatggct	cttaagttca	3900
aaagagaaat	tcaaatacaa	acagcattga	gaggctttct	gcgtctaact	gagatgaaat	3960
agcttgtaaa	agttcaacag	cagtaaacaa	aaattagggg	tcacccacc	aaggaaaagg	4020
agccatgaag	aactttaggt	tctttgttgg	gacccataga	gggctatacc	ctaggaacat	4080
ggattgacca	ggggaagaca	gacttatttt	ctaaaaccct	gcaacctgac	tcaggccaaa	4140
tcttgattga	tcaaggtcat	aagtcaccct	ttacacaagc	ataaaagtaa	cttcagagga	4200
aaatagtatc	tttcagagct	tctcaattat	tcactgtcat	gcaataaaat	attttaagat	4260
atacaaaaaa	aggctggcg	cagtggctca	tgctgtaat	cccagcactt	tgggaggccg	4320
aggcgggcag	atcacgaggt	caggagttcg	agaccagcct	ggccaatgtg	gtgaaacctc	4380
gtctctacta	aaaatataaa	aattagtcgg	gtgtgggtgg	gcacacctgt	agtcaccaact	4440
acttggggagg	ctgaggcaga	agaatcactt	gaacctggga	ggcagagggt	gcagtgaagt	4500
gagatcgtgc	cactgcactc	cagcctgggt	gacagagtaa	gactccgtct	caaaaaaaaa	4560
aaaaaaaaaag	atatacaaaa	aataggacca	agtgggggaa	aatgaattta	aaaaacccaa	4620
actcatagat	agccagtggt	taaaatttat	caaagacttt	aaaagaacta	attaatatat	4680
tcaatgaaac	aggtagacaa	acagagaagt	ttactagaaa	actaaactta	aaaggcatca	4740
ggtaggcat	agtggcccat	gcctataatc	tcaggacttt	gagaggccaa	ggcaggtggc	4800
atcacttgag	ctcaggaatt	tgagaccagc	cttggcaaca	tggcaaggcc	ctgtctctac	4860
aaaaaaaaaaa	aaaaaagaaa	gaaaaagaaa	aatcaggcca	ggtgtgggtg	ctcacacctg	4920
tagtcccagt	tacttgggag	actaaggtag	gaggatgggt	tgagccttga	ttgtgccacc	4980
acactccagt	ctgggcaaga	gagtgagaca	gtgaaatctt	tgtctcaaaa	aaaaaaaaaaa	5040
atcaaatgca	aacaaggtaa	ctgtaaaatg	caataattga	aattaagagc	tcaacagaca	5100
ggtttaacag	caaaactggat	atagcagaag	aaagggttag	taaactgaaa	gatcagtaaa	5160
gaaaaagaaa	agcggatgga	caatgtagaa	cagagcaaaa	gacataaaga	acccggaaaag	5220
aagggtctaac	acaattacaa	ctggagtcca	ggaaagaaga	gaatgagaac	aagacagaac	5280
aatattaaaa	gagagaataa	ttaataattt	tgtaaaacta	acaaggcaat	caggccgaat	5340
attcaaagat	tctatgttac	ataggataac	tcaaaagaaa	accacctcag	gaacatcaca	5400
taggaaaact	acttttgaaa	aaaacaccaa	agattgagaa	aaaaatctaa	aagctgccag	5460
aagataaaaa	catgtttcac	cttcttcaaa	ggagcaataa	caagactgaa	agatgacaat	5520
agaagccaga	aaataatgaa	ataacttttt	tttttttctt	ttttgagacc	gagtcttgct	5580
ctgtgcgccg	gctgtagtgc	agtggcgtga	tgtgggtcca	ctgcaagccc	cgctcctcgg	5640
gttcacgccca	ttctcctgcc	tcagcctccc	gagtagctgg	aactacaggc	gcccgcacc	5700
atgcccggct	aattttttgc	attttttagta	gagacggggg	ttcacctggg	tctcaatctc	5760
ctgacctcgt	gatacacccg	cctcggcctc	ccaaggtgct	gggattacag	gtgtgagcca	5820
ctgcgccccg	cccaactttt	ttattttttg	agacggagtt	tcgctcttgt	tgcccaggct	5880
ggagtgcaat	ggcacgatct	cggctcacag	caacctccgc	ctcccggggt	caagggattc	5940
tccggcctcc	gcctccggag	tagctgacag	gcattgtgcca	ctatgcccg	cacatgcctg	6000
gcatacaaat	acaaaaaatgc	aaaaattttg	tatttttagt	agagatgggg	tttctctatg	6060
ttggtcaggc	tggtctcaaa	ctcccatctt	cagatgatcc	gcctgcctcg	gcctcccaaa	6120
gtgctgggat	tacaggcgtg	agcaaccgcg	cccggcctga	aataacattt	ttaaagtgtg	6180
gaaataactg	ccaatctaga	gttctatacc	agcaagaata	catttcaata	gtaaggagat	6240
tagaaaaatca	ccatttcagc	gccaggcgcc	gtggctcacg	cctgtaatcc	cagcactttg	6300
ggaggccaag	gtcagtggat	cgcaaggcca	ggagttcgag	accagcctga	ccaacatggt	6360
gaaaccccg	ctctaccaaa	aaaaaaaaaa	aaattagcca	ggcatgggtg	tgtgcacctg	6420
taatcccagc	tactcaggag	gctgaggcag	gagaattgct	tgaacccggg	agatggaggt	6480
tgcagtgagc	cgagatcatg	ccattgcact	ccacctggg	cgacagagag	agactctgtc	6540
tctaaaaaaa	aaaaaaaaaga	aagaaagaaa	aaaagaaaat	caccattcag	caatcctcat	6600
aataactgat	atgaggattc	agcaatcttc	ataataattg	attcagttag	gaatcattag	6660
caatgttcat	gaagctgata	aaaacaggct	actcatatag	tgtcgaagga	tcgaagtatc	6720
tcttcaaaag	gtacttatta	attataaagg	gaaaaaatat	aactctgcag	tggagaaact	6780
tggcagatac	cacttcaacc	aacagatcaa	agtgaatca	cagaacaaat	caaaatcaat	6840
gtccttttat	gatgtcgga	agacacaata	ccactcctgt	gtattcttac	caaaaatgca	6900
caaatgaaat	ctagtcatga	ggaaacatca	gataaatcca	aattaagtac	agtgtacaaa	6960
actggcctct	atcctacaaa	aatgtcaagg	taataaaaaga	caaaggaaga	ctgcaggaca	7020
tgtttccaaa	ttaagggggg	taaagagata	ggacaatcat	gcaactcacg	atcatggatt	7080
agatgggtggg	ctagaaaaaa	atctttttct	ttttctataa	agggcattat	taggacaact	7140

gactaaat	gaatatg	tgtacat	atcataga	tgtatagt	tcttcttg	7200
tttgata	acacatg	tgggggt	tggagaaa	aagacaag	aagagagaa	7260
aagaaaa	gctgggc	atgactc	cctgtaat	cagctact	ggcagcagg	7320
ggcagtg	aggggag	aagggat	taaagacc	gagttcaa	ccagcctgg	7380
caacacag	agacctg	tctaaaa	aaaataaa	aaaaaatt	tcttaaat	7440
gccaggcg	gtggcata	cctataat	tagctatt	ggaggctg	gcaggaag	7500
agccagagt	agacctg	tcggtaaa	aggaagaaa	atgacaata	tagattat	7560
cactctga	taaagagt	ataataac	tcaaatag	gtgagaag	aaagaaac	7620
aagaggaaa	aggagag	tctttaca	aaaataat	gtaataaat	agtaataa	7680
cagttacata	atcacact	ttaaagtt	agagaaac	tcagttgaa	caagaatc	7740
caatggata	taaaacc	gaatgaa	ctggtgag	accagata	atgatctc	7800
agaagcact	ctcagatt	ttgttaat	caaaaggg	aatgtacct	taatattg	7860
agttctggt	gtcacctc	taaccaat	aattagcat	accaatact	gaagaatc	7920
atctttctc	ccttttat	taatgcaa	ataagcac	aacattact	actaactg	7980
cttgccaaa	atgtttaat	ttaatctt	caagaggaa	caatgagac	aatgcaga	8040
gtgtgatatt	atataaaa	attgattg	actcctcaa	aaatgtta	gacaagtaa	8100
atgagaag	acaagagg	agttctag	aaagagac	ggcagtgaa	tgcacagc	8160
aagccctg	tgtccctg	atctgaga	caaaagaa	gtgggggca	ctgggaaa	8220
gtaaatatg	gatatata	agatgatc	atggaatt	tgtaatttt	cttctatg	8280
gtaacatgg	gtggttat	gtggaaga	ggcgtatc	gaggaggta	atgctgaa	8340
aattacagg	gaagtgtc	gatattcta	atttatttt	acatggtc	attagggtt	8400
gtgtgtgtg	atatgtgt	gtgtagag	tgagacaaa	taaaagtgg	aaaaatgg	8460
aggcacagc	gcttacc	gtaatctc	cactttgg	ggccgagg	aggcgaat	8520
caaggtcag	agttcgag	cagcctgg	aatatgg	aaccccg	ctactaaaa	8580
tacaaaaat	agctggcg	ggtggtgt	gcctataat	ccagctact	gggaggcta	8640
ggcaggagaa	ttgcttga	ctgggagg	gaggttg	tgagccaag	ttgcaccac	8700
gcactcca	ctgggcg	gagcaag	ccgtctcaa	aaaaaaaa	aaaaggggc	8760
aaaatgtta	actaagaa	actgaata	aggtatct	gaggctggg	gtggtggct	8820
atgtctgta	tcccaac	ttgggagg	aggcaggc	gatcacctg	ggtcagaag	8880
ttgagacc	cctgggca	atggcgaa	cccatctc	ccaaaaaca	aagaaacaa	8940
aaattagct	ggtctggt	tgcacacct	tggtcccag	tggcaccac	gcactccag	9000
ctgggtgac	gagtgag	ccatctcca	aaaagaaa	aagaaaagg	aattgggtg	9060
tcatacgta	tccacttt	ctggaaatt	gaagctgt	aatataaaa	atggaagg	9120
gggctgggt	gtccacac	gtaatccc	cactttgg	agcccagg	ggcagatca	9180
ctgatgttg	gagttcaa	ccagctgc	caacatgg	aaacaccg	tctactaaa	9240
atacaaaat	agctgggc	ggtggcgg	gcctgta	ccagctact	gggaggctg	9300
ggcaggagaa	ttgcttga	ccgggagg	gagattgc	tgagccaag	tcgtgccat	9360
gcattccag	ctgagcaa	aaagtga	tccgtctc	aaaaagaaa	aaatagatg	9420
aggaaaaaa	tcagattag	aagaataca	gcagaca	ggacttgat	ctaggagca	9480
tgggaactac	ccaaaagg	gcaggga	cacacggc	aagcaga	ggaatctt	9540
catctggcag	caacgcag	tggagcagg	gaggcgag	tgaaaacg	agaactcag	9600
ctcgcagct	cccaggc	agatcatc	atgacccc	gttccatc	ttaccaca	9660
ctgtctcag	gtgagggc	cagcctgat	acacaga	tgctgtcag	tgctcctg	9720
gagaagagaa	gtctctagt	ctgtaga	aataatc	tctgatgat	tcctacag	9780
tccatgttt	atttactc	tggccaaa	acttgccc	tccactcag	ctgtacacc	9840
ttgggtggg	gtgggggg	gctgccgt	tggtgag	tgccagcag	gtggcaatg	9900
accgccagc	ccgcacac	cctctccag	cagtggct	gtctcacac	ggggtctac	9960
cactgatctg	tttgcca	gactggg	tatttcca	gcctttcag	ttttccgct	10020
gacaaaatag	aaataatg	tattttct	tctaaaa	ggtggtttt	agcatgtca	10080
gccattttt	gccaaaga	aaatactg	ccaaatagg	gaaaaact	aaataaa	10140
gatgaaaa	tctgcaa	gaaggact	gaaaagt	ggaatcat	tggctatg	10200
tcttatatt	ctatgctc	catctctaa	ttaatgct	aaagaaa	gggtgatgt	10260
acctccca	gtacctct	gtgcactc	atttaatt	agctgttct	gaagggcc	10320
tcaaaata	aataataa	tcatacg	ttggaaa	aaaatgtt	tttcatgt	10380
tatgctact	agaaaac	agagaacc	caaaaaca	taggactat	aaaaata	10440
aaataatt	aaaaacac	aatcaac	ctttccta	tattggcaa	gatcaatt	10500
aaaataat	ggaataaa	atcctaag	aagaata	aattaaaa	acaggtact	10560
agaattaa	gaaatgtg	ggaactag	aagaactg	caaaaccat	agtgggggc	10620

attacatatt	ttacttgaaa	gatacccccac	atccgtggat	ggaaagagt	catactgcaa	10680
agacaccaat	tctttccaaa	gtaatttctt	tctttctttt	ttttttttt	tttttgagac	10740
aggggtctcat	tctgtcgccc	agactggagt	gcagtggtgc	aatctcagct	caccacaatc	10800
tctgcctccc	aggctcaagt	gattctcctg	cctcaggctc	ctgagtagct	gggattacag	10860
gtgtgtacca	ccatgccag	ctaatttttg	tatttttagt	agagagatgg	ggtttcta	10920
tgttagtcag	gctggtcttg	aactcctaac	ctcaaataat	ctacctgtct	cggcctccca	10980
aagtgtctggg	attacaggca	tgagccacag	cgtccagctt	ccaaagtaat	ttctatgttg	11040
aatgtaatta	tcatcaaat	ttcaaaggga	tcttctttct	tgattcgcag	tgggtagggg	11100
tgggggtggga	tcaagaagaa	gatgataaaa	gtgattctaa	aatgtcttaa	gaaatataca	11160
agaaggccgg	gcacggtggc	tcacacgtgt	aatcgcagca	ctttgggaag	ccgagggttg	11220
gcggatcacc	tgaggtcagg	agttcaagac	cagcctgacc	aacatgaaga	aaccccatct	11280
ctattaaaaa	tacaaaattt	ttataatttt	gtacaaaaga	gtacaacgaa	tactaacaaa	11340
tacagtgtgt	aacaaatcta	taataataaa	aacattgcag	cattagcaca	acaacagaca	11400
agtacagcaa	tgaatgagaa	cagaatgtcc	ctgatcacac	atcagtatat	ttagaatttt	11460
agcagatgaa	aaaggtgaca	tgtcaaatca	gtggggaaaag	aaataaatcg	ttctataaat	11520
ggtgtctgaga	ctatccagtt	ggtcaacagg	aaaaataaaa	gttatattcc	ctgttacgca	11580
actagcaaca	acacaaattc	cataaaaagaa	aactaaaatc	atttaaaaaa	aaaaaaaagt	11640
aggcaaatag	ttctatgccc	ttgcagtggt	ggaagggttt	tccatgctta	gacaaaaggaa	11700
gaaactgtga	acttgacaat	gtggaagttt	gagacttgtg	ctcggggcac	tggccaactg	11760
gtgttgaggc	tgtaagctga	aatcaccttt	ttaaagcaca	ggttagcaat	gtacattaaa	11820
atgaaaacaa	gtccattttt	tttaacctag	gattagcagc	tctgaggttt	tttgcttttt	11880
gtttttgaga	cagagtctca	ctctgttgcc	cagcctgaag	tgagtgcca	cgatctcggg	11940
tcactgcaaa	ctccacctcc	agggttcaag	caattcttct	gcctcagcct	cccagcagc	12000
tgggattaca	ggcgcccgcc	accacagctg	gctatttttt	gtatttttag	tagagacgag	12060
gtttcaccat	gttgccagg	ctggtctcaa	actcctgacc	tcaagtgatc	cgcccacctc	12120
ggcctcccaa	agtgtctggg	ttacaggcgt	gagccattgc	accagccta	actctgaggt	12180
ttttacccca	caaaggtaat	cacaaaagta	atacctattt	cccaaggata	cttaaaagaag	12240
agttgtcata	attgtgaaaa	atgaagataa	tcaaggggac	tgggttacia	taaattatgg	12300
catatatattt	cagcagaaca	caaggcagtt	actaaaattg	atgctagaga	tctgtattga	12360
tggataccag	ttacatccaa	gacctagtat	caagcaggga	aaaaaaaaag	aaagatgaga	12420
gaagaggcaa	aatctaagg	gactggcttt	acttaatgac	ttactcaaat	gactttaagg	12480
taagactcaa	cagttccaag	agaggccaaa	aggcaaaagca	ctctaacctc	agcttccaga	12540
tttgtgccct	ccctctggcc	caagtcacag	attcttccag	gtgcctcagt	ctctcagctc	12600
ataaaatggg	gataaaaatc	accagtgcca	ttaccatact	ctccctgtc	cccagggtgc	12660
tctgaggatt	aattagctgg	tatttgtgaa	gtgtgttcct	gtactgagtt	attactgaaa	12720
agtttccatt						12730

<210> 88

<211> 9602

<212> DNA

<213> Homo sapiens

<400> 88

cctaggaata	gactcagatg	tgtgcagttt	taattttaat	aagacctgtc	aaacctttctt	60
ccagggttggt	tccactcaca	ttccctcaac	cttgccata	tgatgctatt	aagcttttta	120
tctttgccat	tctgaaagg	taaaaaattg	tctcggtatt	ttattttatt	attttattga	180
gacagaatct	cactctgtca	ctcaggctgg	tgccatctcg	gctcactgta	acctccgct	240
cccagggttca	agcaattctc	gtgcctcagc	ctaccgagaa	gctgggatta	caggagtgtg	300
ccaccagccc	tgctaatttt	tgtatttttg	tagatacagg	gtttcactat	gttggccagg	360
ctgggtctcaa	actcctggct	tcacgtgatc	catctgcctt	ggcctcccaa	agtgtggga	420
ttacaggcgt	gagccaccac	acacagcctc	attataattt	taaggaaact	ttgttggca	480
ttgaatatat	acagaaaagc	atgcacattt	ttagtggtac	agcttaatga	attttccac	540
ggtgaacaca	cttatgtaac	taccatccag	atcaaaaaat	agagtaacag	cctctagcaa	600
catcccttgt	ctctcccgag	tcaccaccta	acttctaata	ccacagattc	agtttgcttg	660
cttttgaatt	ttatatatgt	gggataatac	ggaaagcatt	cacacctgta	atccagcac	720
tttgggaggc	cgaggcgggtg	gatcatgagg	tcagaagatt	gagaccatcc	tggctaaccat	780
ggtgaaaccc	cgtctctact	aaaaatacaa	aaaaaattag	ctgggcatgg	tgggtggcac	840

ctgtagtccc	agctactcgg	gaggctgagg	caggagaatg	gcgtgaaccc	aggaggtgga	900
gcttgcagtg	agcagagatc	acgccactgc	actccagcct	gggcaacaga	gcgagactct	960
gtctcaaaaa	aaaaaaaaaa	aaaaggtaaa	cggctccttt	tgttcaacat	tataacatta	1020
tgcttgcgag	tcctccttgt	tgttacacat	agccacagtt	cattcaaatt	gttgtattgt	1080
agtcttatac	agtaaaagaa	tgtatttcta	gttttggacc	atctatgaat	aatgctgcta	1140
tcaacattct	taatattgat	ttttttaggg	gaaatgctcg	attatagagt	gcacatcttc	1200
tcagctttta	cagatactgc	caacaatgtc	caaaatgggtc	acagcaattc	acactcccac	1260
cagcagagta	gaagagctct	agctgtccca	caccagcag	caaagttctc	agtcttttcc	1320
attttagtca	ttctgggtgg	tgtgaaggat	agcacattct	gattgcaatt	tgcattttctc	1380
tgacaacgac	cgagactgaa	tactttttgt	ttgtttatca	tcttcattga	gtacagcggt	1440
ctacgtaata	aggcaagttt	gttcattgtg	ttgttagaat	ctggattgct	ttgtctgttt	1500
gtactaccaa	acatggagaa	agaagttttg	aaagaagttt	tgaaacgtcc	cattatgata	1560
gatttgtcta	gtcctccttt	cagggtctgtc	cagttttgct	ttacgtatat	tgaagctatg	1620
tttggttaggt	gtgtaactat	tttgaaatgt	tcactctgtt	ggtgattgac	cattttatta	1680
ttctgaaatt	tttctatctc	tgactcactt	ttttttattt	gttttgagac	ggagtctcgc	1740
tctgtcgccc	aggctagagt	gcagtggcgt	gatctccact	caccgcaatc	tttgtctccc	1800
agattcaagc	aattctcctg	cctcagactc	cggagtagct	gggattacag	gcattgcgcca	1860
ctgcatagag	acagggtttc	gccatgttgg	ccaggctggg	cttgaactcc	tgacctcagg	1920
tgatctgctc	acctcggcct	cccaaagtgc	tgggattata	ggtgtgaacc	accacgcctg	1980
gccttctgat	tctactttta	agaccacctg	tctgggtatta	gtaccgagtt	tcttgtggtt	2040
agtgtttgca	tggtatatct	ttttccatca	cttgacattt	aatcctttaa	tatctttata	2100
ctaaagggtg	gtctgatgca	agcagcattg	agtcttttaa	atctaactct	gaccaactgc	2160
ttttaatgga	gtatttactc	catttatatt	taatgtaaat	gctgaacttt	gggggtttat	2220
atctttcata	ttacaatttt	gttttccttt	tgacctgttt	agtgtctctc	tttctctcct	2280
gtcttctttt	taattcagtt	tttctctcta	ttaccttgta	gtcaagggtg	tttctgatgg	2340
atcttctctac	tgcaaaagtta	ctatcttttc	tttcagagtt	aataaaatagc	tcggaaaaaga	2400
cacttttgctc	tttctcttga	aaccttcctc	tcatttttagc	acccgtcaat	ggaattttgtc	2460
tgcaacagta	attactggat	gtttgcctaa	tgggagatcc	tcaattaaag	gtgaaagggg	2520
ctctgagagt	aaaacacttg	cgaaccaacg	ccctagacat	cacaatatat	cctttactta	2580
ctatagtgtg	atataaatga	gaaattttac	tgttcccca	aagatcctcg	cacatataac	2640
tttccctcca	cccctccttt	tgtgtactgg	catgcatttc	aattataatg	tatgttaaaa	2700
tccacaagaa	agacattctt	attttacaca	gtcaatattc	gttgatatgt	gtccttttgt	2760
ttgtccttca	ttctttcctg	ccatttctat	gtttccatgt	aagatcattt	tctctctgcc	2820
tgaaaactcc	tttagtggtt	ctttcagtac	agtgtgctgg	tgatgaattt	tctctttttg	2880
tttgcttgga	aatgtctgta	ttttccttca	cttttaaaag	acattctgtt	atgaaataat	2940
ttctgattta	cagaaaagct	gctgaaagca	tagtaciaaag	aattctcata	tatctttcac	3000
ccagggttctt	taaatgttaa	attcatcaca	ctogctttat	tattctctat	tgatctgtct	3060
atatgattac	tttccctgaa	ctgtttgaga	ctaagttaca	gacatcacac	cctacccctt	3120
aaatatttca	gtaagcatgt	cttaatttgg	gggtggagtc	ggggaagctc	atgcttgtat	3180
ataaccacag	aataattatc	aaaatcaaga	gtttaacaat	gttacattta	tatctgttagc	3240
tcagatcttt	cctctgaact	tgattcataa	tatccctctg	cccacctgat	acctccactt	3300
ggatgtctga	tatctcaaac	ttaatatgtc	taacactgaa	ctcctaactc	tgccccacca	3360
aactgctcca	ttcctagtta	atgacaactc	caaacttgta	gtcacacaag	gccaaaaacc	3420
ttggagtcac	ccttaatttc	tacttctctt	tcatatccag	atccccaaaa	tcaggctatt	3480
ctattggatt	tacttccaaa	aaaatatcca	gggaatctga	tcacatctta	acactagact	3540
agtctcccag	cttccacct	ggtgatccta	ttaaaccctta	catcagatgg	tataactcct	3600
tgtctaaaac	actctgatga	ttttccattt	tactcaaaat	aaaaccaaag	tccttaccac	3660
gatactgttg	ccctacacaa	ccttactccc	tgtgaatgct	gtgacctcgt	gtctcactgc	3720
tatccacctg	gcctaccatt	cttgttccctg	gaatttgcca	gacacaactt	cctcttcaag	3780
cttctgcatc	ggtcattccc	ttttcctgaa	actctttcta	cccagaaatc	tgcatgggtt	3840
gcttccctgt	tttcttcaag	tttttgccta	aaatgttatc	ttagaggggc	ctttccaaac	3900
ctatccattt	aaaaatagcaa	attcctaaga	agaatcctct	attgtctctta	ctcatgttta	3960
tattttattc	tattttactgt	cttctccctc	ccactctacc	attacatttg	gggttatttt	4020
attcactgct	atgttccctag	tacctaaaac	acctaggttc	tactggcacc	tagtaggtat	4080
tcaataaaaa	tgtgtaaaaa	gccaggcgtg	gtagctaata	cctgtaatct	cagcactttg	4140
ggaggctgag	gcaggaggat	cacttgagta	caggagttca	agaccagcct	ggacaacata	4200
gtgcaacctc	acctttttta	aaaaaaaaaa	aaaaaaaaag	gggtgcaatg	gtgtatat	4260
gtagtctcag	ctactaggga	ggctgaagca	ggaggactgc	ttgagccacg	gaggtcaagg	4320

ctgcagtgcg	ccatgactgc	accactgcac	tccagcctgg	gtgacaaaaac	aagactctat	4380
ctcaaaaaaa	aaaaaagtgt	agaaagaata	aataaacgga	aaccccaata	tgtaaaacag	4440
acaaaagtaa	tggtcaggtt	ttgagaggtc	cggaggggta	tggagaaaaa	tcagagtcctc	4500
accttcttga	ttccctcttt	gccccgaaa	tatctctca	gaatctccaa	gaatccccag	4560
aggtaagtat	aaaaaccgtt	accaggccag	gtatgggtggc	tcattggctgt	aatccccgca	4620
ctttggggagg	ccgaggagg	acagatcact	tgaggtcaag	gagttcaaga	ccagcctggc	4680
caacatgggtg	aaacccccgt	ccctaataaa	aatatagaaa	ttagccaggt	gtgggtggcag	4740
gcgcctgtaa	tcccagctac	tcaggaggct	gggggtggcag	aattgattga	atccgggagg	4800
cggagggtcac	agtgcgtga	gatcgtgcca	ttgcactcca	gcctgggcta	cagagtga	4860
ctccatctca	aaaccaaacc	aaacaaaaca	aaacaaaatg	cctgttacca	tatattcacc	4920
ctgtactaaa	taaagcaaac	tagttttattc	atcagcccc	gatatgcctt	atactctgga	4980
gagagtcagg	catcagtcct	ccacccctga	tggtccagcc	atcagagtag	cttcttccca	5040
accctactct	gagcttgca	gttggtccgg	gttatctctt	ccatcaccaa	agctcctctg	5100
tgatcacccct	aggtagaagt	acttttctac	agcaattact	atctagacaa	tactcctctg	5160
gttggtcaaac	atagatgggt	ttgtaacctt	tcttttatct	tatatgggtt	tctgaggatt	5220
ttaatgggtgt	tgaactttta	ttctctgcct	tattcattac	tgatcccca	aaacctaaaa	5280
tctgatcaa	cccatagtg	tcattccca	aataattgtt	caatgtgtga	ataaatgtga	5340
ataaagcaca	ctgggtgctt	atgaattgca	gattttcaat	agctgtaaga	tatatattgta	5400
gtacttcatg	ataatccctt	ttttccctc	ttaaaaaaa	aaagctgtt	atcataaac	5460
tcattatcac	tgtcatcatt	aacatttaac	attattcttg	gagtttcatc	ctatgtaata	5520
aagcagggaaa	taaaaattaa	atgtctatga	actagagaca	agtttacaaa	ataatcaatt	5580
gaccatatac	ctataaaatt	taatcatgag	aaagtgggat	ggcaagatat	agtacataaa	5640
attaaaaatc	agtagcactc	ctatgtacca	gcaataatta	aaaaataaaa	tgaagagaaa	5700
ttcctttcat	aatagccatg	agaaatataa	aattactata	gtcttacaaa	atgttagatc	5760
agtataaaga	aatgttgcaa	agagaaataa	agggagacaa	acgaaaaagc	ctttcaaatt	5820
attttatttt	tattttataa	attattataa	atttataaat	tataaattaa	ataaaatata	5880
aattattata	aacttataaa	ttattttata	agtttaacac	aattttcaatt	aaaaaatccc	5940
aattatttta	aattatttca	gatgttcctc	aaagcttatct	gggagaatgc	acaaataaga	6000
ataacaagga	ttagccaggc	acgggtggctc	acgcctgtaa	tcccagcact	ttgggaggcc	6060
aagggtgggtg	gatcataagg	tcaggagtcc	aagatcagcc	tggccaagat	ggtgaaatcc	6120
tgtctctact	aaaaatacaa	aaatgagcag	ggtaggtgg	cgggcgcctg	taatcccaac	6180
tactcgggag	gctgagacag	agaattgctt	gaaaccagga	gacacagggt	gcagtgcagcc	6240
gagattgcac	cactgcactc	cagcctgggc	gacagagcca	gactctgtct	caaaaaaaaa	6300
aaaaaaaag	gatacaaaag	atcatcggtt	aacaccaagg	tcagaggcaa	caagaatgga	6360
aacagggttc	attctgcctc	catgggatcc	cagactgctc	ttaattttcc	ttttctgact	6420
acctgccatg	tagacttcaa	gctccagcct	cagacgtggc	aacagcatac	tatttcccat	6480
tgggtctgct	tctctgggtg	aacccttcct	gagacagaga	agactgttct	tttcctttgt	6540
cgctcatatc	aataggacac	ttatttggtta	atttatgtgt	cagctgcttc	ctccactaga	6600
agcataacat	agtgggttaa	agcaaaaatt	agaaaaaaag	gtggcttatg	ttttaatcct	6660
ggctctgaca	cttaatatgt	atgagtcagg	tccttcactc	gtaaaatggg	aataaagtgtg	6720
ttataaagat	taaataagct	actactttta	tagatcaatg	cctggcatat	ataagcagca	6780
tatgaacttg	atgaataaaa	atataataaa	aataatgcac	tgaaaaaaa	aagaacagct	6840
aggaatgttc	ggtagtccat	tcagtatcct	cttctggata	tttaaatatt	tcttagtatt	6900
tttttttaag	tgggtccctct	agggattaca	atatacattc	ttatcagtct	actctgaatt	6960
aatattacac	catgttacat	attaagaact	ttaatatgat	acataataat	gtatgtacta	7020
tactgtatta	ttgtttatat	tgataataca	ttttattaag	aatccttggc	gggtgcagtg	7080
gctcacgcct	gtttgggtgc	agtggctcac	gcctgtaacc	ccaacacttt	gaaagggtcaa	7140
ggcagggtgga	tcacctgagc	tcaggagtcc	gagaccagcc	tgggcaacat	ggtgaaatcc	7200
tgtctctact	aaaaatacaa	aaatttaacca	ggcaaggtag	catgcacctg	taatccagc	7260
taccggggag	gccaaaggcag	gagaatcgct	tgaacctggg	aggcagaagt	tcagtgagt	7320
tgagatgggtg	ccactgcacg	ccagcctggg	tgacagagtg	agatcctatc	tcaaaaaaa	7380
gaaaaagagt	cttaattcca	tttacacccc	ttctgtcctt	tgtgctcttg	ttgtaaaatg	7440
ttcattacat	ataaatatat	gagtatacta	taaatctaac	actacattat	tgttattgct	7500
ttagtcaact	gacttttaca	gaactgaaga	attaaaataa	aatagtattg	tatattttcc	7560
tatgtattta	acattccccc	ggctctttat	cccttcctga	agaccccaat	ttccatctag	7620
tattgtcaga	ggcatgtgaa	ccagaacaac	tccatcttga	gtaggagctg	ggtaaaatga	7680
ggctgaaacc	tactgggatg	catttccaaa	cagctgaggc	attctaagtc	acagggtgag	7740
acagaaagtc	ggcacaaaat	acagggtcata	aagacctgtc	tgataagaca	ggttgagta	7800

aaggagctgg	ccaaaaccca	ccaaaaccaa	aatggccatg	agagtaacat	ctgggtgtcc	7860
tactgtctac	actcccacca	gtgccatggc	agtttacaga	cgccatggca	acatcgggaa	7920
gttaacctct	atagtctaaa	agggggaagc	atgaataatc	caccccgctc	ggcatctcat	7980
caagaaataa	ccataaaaaa	gggcaaccag	cagctcccag	ggctgctctg	tctgtggagt	8040
agccattctt	ttattccttt	actttgttaa	taaccttgct	ttcactttgc	accgcagact	8100
cgcccagaat	tctttcttgt	gtgagatcca	agaacctctc	cttagggctc	ggattgggac	8160
ctcttcctta	acagattttc	ctttcttgtta	acagtattat	ctcctcttca	atgggaagat	8220
ctcacacaga	tatttattca	atgcatgtct	gctggtgaca	atttctctca	gcttttatct	8280
tataatgtct	ttattttttt	ccttcatgtt	tagtgggtatt	ttcactgtac	agagaattct	8340
agataaagtg	tcttttttct	ttcgccattt	tgaaaacatc	attccattgt	cccgtgtgct	8400
acactgtctc	tgattatgag	tcagccataa	ttctcatcat	tgttcccttt	ttatttaata	8460
ttagcagttt	cactgtgata	cacctcgatg	caattttctt	tgttatttat	cctacttgta	8520
attggccaca	cttcctgggc	tgctgtttgt	gtgggggttac	tttaatcaaa	attggaaatt	8580
tctcagccaa	tattgcttca	aatacttttt	ctgcctcatc	cttctctgct	ttttgggagt	8640
actgctgtca	ccctatgtta	gacagcttga	tttttgtcct	gcaggtcatt	aaggctctgg	8700
tcttattttt	attccagcta	tttttcctct	ccatacttca	gtttggatga	tttctgttta	8760
cctgtcttca	ggttcactga	tgcttccttc	tgttatgccc	aatctgctgt	gtctctcacc	8820
cagggaaatt	tcagtgtcag	gttttgtgtt	tttcagttct	aagatttaca	tttggttctt	8880
tttcacaact	tccttatctc	cactgcaact	cctcacctct	ttaccctttc	acccattttt	8940
ttcatgtaaa	ttcttttaac	atatttggtc	atagttaaag	ttactgttca	cctgtgaatt	9000
tgtttctatt	aactgagttt	tcatttcagt	aagggtcaca	gggtcctgtt	tcttctcaca	9060
tctagtaatt	ttttaatttt	atactggatg	ttgaagggtga	tagttttag	aggctctgga	9120
ttctgttttc	ttctgcagaa	ttcagttttt	tctagtagac	agttaaatca	cctgtagatc	9180
tggtgtaggc	acaattttat	gctttatttt	tgttttgccc	ttagtcttag	ggaaaatgcc	9240
atagccctgg	ggagtagtat	ttgcccctaa	ggggtagccc	ttctgggatt	tcaaagcaaa	9300
gtccaagggtg	tttatcgaa	cgcctctaac	ttgacaagac	tccacctcca	aattctctct	9360
ctcccacagc	aggcagctac	tgaaatctct	gctggaatct	gtggcacttc	ccctgtgcat	9420
gggcagttca	gcagttagtc	tagcatgtga	ggggtgttta	tatgtacttc	ggggtgatcc	9480
ccagcatggg	tctctccttt	ctatgattgc	catcttcaat	ttcccgaac	acagtctcaa	9540
aatatccctc	gattcctcaa	accaatatga	cacagctttc	tgcttgagtt	ctatttgcta	9600
gc						9602